ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
Bruhat Bengaluru Mahanagara Palike

EXECUTIVE ENGINEER, RR NAGAR DIVISION

DETAILED PROJECT REPORT

Name of Work : Comprehensive Development of Roads & Drains in LG Ramanna Layout, Freedom Fighter Colony, Narasimha Swamy Layout and Surrounding areas in W No.69 under PACKAGE- 2022-23 RRN-DIV-(12).

Est Cost : 1000.00 Lakhs

CIVIL QUALITY CONSULTANTS & ENGINEERS
(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC: 17025:2005 Laboratory
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Chapter-1

INTRODUCTION

1.1 GENERAL

Bangalore is the capital of Karnataka. It is located on the Deccan Plateau in the south- eastern part of Karnataka. Bangalore is India's third most populous city and fifth-most populous urban agglomeration. Bangalore is well known as a hub for India's Information Technology sector. It is among the top 10 preferred entrepreneurial locations in the world Bangalore is sometimes referred to as the "Silicon Valley of India" (or "IT capital of India") because of its role as the nation's leading information technology (IT) exporter. Indian technological organizations ISRO, Infosys, Wipro and HAL are headquartered in the city. A demographically diverse city, Bangalore is the second fastest-growing major metropolis in India.

1.2 GEOGRAPHY

Bangalore lies in the southeast of the South Indian state of Karnataka. It is in the heart of the Mysore Plateau (a region of the larger Precambrian Deccan) at an average elevation of 900 m (2,953 Ft.).It is located at 12.97°N 77.56°E and covers an area of 741 km2 (286 sq mi).The majority of the city of Bangalore lies in the Bangalore Urban district of Karnataka and the surrounding rural areas are a part of the Bangalore Rural district. The topology of Bangalore is flat except for a central ridge running NNE-SSW. The highest point is Vidyaranyapura Doddabettahalli, which is 962 m (3,156 ft) and lies on this ridge. No major rivers run through the city, though the Arkavathi and South Pennar cross paths at the Nandi Hills, 60 km (37 mi.) to the north. River Vrishabhavathi, a minor tributary of the Arkavathi, arises within the city at Basavanagudi and flows through the city. The rivers Arkavathi and Vrishabhavathi together carry much of Bangalore's sewage. A sewerage system, constructed in 1922, covers 215 km² (133 mi²) of the city and connects with five sewage treatment centers located in the periphery of Bangalor.

1.3 CIVIC ADMINISTRATION

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The **Bruhat Bengaluru Mahanagara Palike (BBMP)**, is the administrative body responsible for civic amenities and some infrastructural assets of the Greater Bangalore metropolitan area.[1] It is the

fourth largest Municipal Corporation in India being responsible for a population of 6.8 million in an area of 741 km^2. Its boundaries have expanded more than 10 times over the last six decades. Its roles and responsibilities include the "orderly development of the city" — zoning and building regulations, health, hygiene, licensing, trade and education, as well as quality of life issues such as public open space, water bodies, parks and greenery. The BBMP represents the third level of government (the Central Government and State Government being the first two levels). BBMP is run by a city council composed of elected representatives, called "corporators", one from each of the wards (localities) of the city

1.3.1 HISTORY

The history of municipal governance of Bangalore dates back to 27 March 1862, when nine leading citizens of the old city formed a Municipal Board under the Improvement of Towns Act of 1850 with a similar Municipal Board was also formed in the newer Cantonment area.[3] The two boards were legalised in 1881, and functioned as two independent bodies called the Bangalore City Municipality and the Bangalore Civil and Military Station Municipality (Cantonment). The following year, half of the municipal councillors were permitted to be elected; property tax was introduced and greater powers given over police and local improvement.

After Indian independence, the two Municipal Boards were merged to form the Corporation of the City of Bangalore in 1949, under the Bangalore City Corporation Act. The corporation then consisted of 70 elected representatives and 50 electoral divisions and the office of Mayor introduced for the first time. The first elections were held in 1950.

The name of the council changed — first to Bangalore City Corporation (BCC) and then to Bangalore Mahanagara Palike

In 1991 the BMP expanded to include 87 wards in 1991 and 100 wards in 1995. The council also included 40 additional members drawn from the parliament and state legislature.

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In November 2006, the BMP Council was dissolved by the state government upon the completion of its five year term. In January 2007, the Karnataka Government issued a notification to merge 100 wards of the erstwhile Bangalore Mahanagara Palike with seven City Municipal Councils (CMC)s, one Town Municipal Council (TMC) and 111 villages around the city to form a single administrative

area.[4] The process was completed by April 2007 and the body was renamed 'Bruhat Bangalore Mahanagara Palike'(Greater Bangalore Municipal Corporation).

1.3.2 ZONES

BBMP is divided into Eight zones, for the ease of administration each administered by a Zonal Commissioner: Every zone has a Joint Commissioner, who is answerable to the BBMP commissioner. The decentralization hasn't been very effective in addressing the problems in administration. The end of 2013 saw discussions in various circles about dividing BBMP into more parts.

1.3.3 ROLES AND RESPONSIBILITIES

The Bruhat Bangalore Mahanagara Palike is the fourth largest Municipal Corporation in India, after the city corporations that administer Mumbai, Delhi and Chennai. The BBMP is responsible for infrastructural assets of the Greater Bangalore Metropolitan area, spread across 741 km^2, with a population of 6.8 million.

Its roles and responsibilities include the "orderly development of the city "zoning and building regulations, health, hygiene, licensing, trade and education, as well as quality of life issues such as lung spaces, water bodies, parks and greenery

1.3.4 Project Background

Bruhat Bengaluru Mahanagara Palike (BBMP) is desirous of obtaining consultancy services for the preparation of Design Report for roads & Drains. BBMP has taken up a programme of Comprehensive Development of Roads & Drains in LG Ramanna Layout, Freedom Fighter Colony, Narasimha Swamy Layout and Surrounding areas in W No.69 under PACKAGE- 2022-23 RRN-DIV-(12).The growth in vehicular traffic in this area and associated activities necessitates the widening of the

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project road to adequate width , since the ward and area located is ongoing development with UGD and Water line the development is most necessary with road and Drainage.

M/S Civil Quality Consultants & Engineers has been appointed as a consultant to perform the services. This Report deals with the approach, methodology, investigation details of project roads and the role of Consultants.

1.3.5 Loaction and Teerain Condition

The Project road lies under Rajarajeshwari Nagara Constituency Ward 160 Under RR Nagara Sub Division

Estimate Name:- Comprehensive Development of Roads & Drains in LG Ramanna Layout, Freedom Fighter Colony, Narasimha Swamy Layout and Surrounding areas in W No.69 under PACKAGE- 2022-23 RRN-DIV-(12).

Project Cost Rs.1000.00 lakhs

Above Details Provided By Concern Assistant Engineer ,Assistant Executive Engineer & Executive Engineer BBMP RR Nagara Division.

OBJECTIVES

The Objectiveof the Consultancy services is to recommend an Optimal proposal for implementation which comprises of:

- Road Inventory as per IRC SP 19
- Flexible Pavement As per IRC 37-2018
- Rigid Pavement Design As per IRC SP 62-2014
- Prepare Bill of Quantities and Estimate based on Current Schedule Rate of PWD Bangalore Circle 2021-22

Note: Estimate and Design of Roads, Drain are Prepared as told By Concern AE, AEE and EE

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Chapter -2

INVESTIGATION & SURVEYS

2.1 GENERAL

A site investigation is the process of the collection of information, the appraisal of data, assessment Site investigation is carried out in order to enable a geotechnical and geo-environmental assessment of the road conditions and analysis of the engineering and environmental considerations related to the proposed development. Subsurface condition at a road may be relatively uniform or extremely variable and will largely determine the complexity of the problems to be faced in both design and construction. The subsurface investigation must therefore be of sufficient extent to provide enough information for a thorough understanding of the interaction of proposed work

The basic aim of field investigation and analysis is to identify technically and economically feasible solution to improvements / widening of the existing road, if any. These improvements include the formulation of suitable cross section through widening / improvements to the existing pavement drain system, footpath and facilities to the road users. The various engineering surveys/investigations of the road sections include

- Reconnaissance Survey
- Visual Topographical Survey
- Road Inventory Survey
- Pavement Condition Survey.
- Road signs, safety devices
-

2 .1.1 RECONNAISSANCE SURVEY

Reconnaissance Survey of the road, considered for improvements, has been carried out to identify the general condition of roads, drains, culverts and bridges for further surveys/investigations, to understand kind of establishments along the stretches of roads and to work out land acquisition scheme. Making use of the observations / data collected during reconnaissance survey, detailed schedule for surveys/ investigations required for the project has been finalized.

2.1.2 VISUAL TOPOGRAPHICAL SURVEYS

A Topographic Survey is a survey that gathers data about the elevation of points and presents them as contour lines on a plot. The purpose of a topographic survey is to collect survey data about the natural

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and man-made features of the land, as well as its elevations. Topographic maps are used to show elevations and grading features for architects, engineers, and building contractors Topographic Survey has been conducted all along the corridor by physically measuring the Road Width, Footpath Width, Drain Width, and Alignment of Road and with the aid of Google Maps.

2.1.3 Road Inventory Survey

A detailed inventory and condition survey of road sections has been carried out by making use of well structured inventory data format. It was compiled in tabular form, developed using Excel computer software. Various data collected during the road inventory broadly include

- ✓ Type of terrain.
- ✓ Land use.
- ✓ Carriageway width.
- ✓ Type of surfacing.
- ✓ Shoulder, Median, Drain (Tertiary / Secondary), Footpath-type and width.
- ✓ Road Geometry.
- ✓ Road Furniture.
- ✓ Salient Buildings & Structures.
- ✓ Road Intersection(s) and their details.
- ✓ Land width (ROW).
- ✓ Culverts, bridges and other structures (type, size, span arrangement and location).
- ✓ General drainage conditions.

2.1.4 PAVEMENT CONDITION SURVEY

The visual survey is conducted and various details of the existing pavement are recorded.

- ✓ Pavement condition (extent of potholes, cracks, rutting, evenness, etc.)
- ✓ Shoulder condition (surface, potholes, height above or below carriageway, evenness)
- ✓ Side drain (type, condition)
- ✓ To assess the condition and strength data for developing improvement proposals and related designs

2.1.5 Road signs, safety devices

Road signs give information about the road conditions ahead, provide instructions to be followed at the major crossroads or junctions, warn or guide drivers, and ensure proper functioning of road traffic. Being unaware of road signs is akin to throwing caution to the wind. It can lead to loss of life and property The provision of Road Signs, Pavement Markings, Safety Barriers, Railings, Delineators, Chevron Markings, and Traffic Attenuators are made in the Detailed Estimate.

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Chapter -3

DESIGN STANDARD & SPECIFICATION

Planning and design of roads & CD structures, pedestrian facilities and street furniture are essentially based on the IRC standards and MoRT&H specifications. Whenever, the codes / Standards are silent on some of the aspects, the same has been planned / designed based on Sound engineering practices. Design standards relevant to the project road along with the Broad list of design parameters and the relevant IRC codes/specifications have been detailed

Sl No	Design parameters	Reference Code
1	Geometric Designs Standard	As per IRC:86-2018
2.	Road Furniture ▪ Road Markings ▪ Road Signs	 As per IRC:35-1997 As per IRC:67-2012
3	Road Capacity	As per IRC:106-1990
4	Pavement Design	As per IRC:37-2018
5	Overlay Design	As per IRC:81-1997
6	CC Pavement(Rigid)	As per IRC: 62-2014
7	Road Drainage	As per IRC: SP: 50-2013
8	Culverts	As per relevant IRC codes and Morth

The project road section passes through plain terrain. Design standards (as appropriate) have been further elaborated under the following heads:

- Geometric Design
- Pavement Design
- Rigid Pavement Design
- Overlay Design
- Drainage
- Road Furniture and Appurtenances
- Bridges and CD Structures

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3.1 Design Standards Related to Geometric Design

Design standards related to road geometric along with the suggested design values/ standards and recommended values based on site conditions and data analysis are detailed in table

Sl No	Design parameters	Design values
1	Design Speed	Design Speed considered is 60 kmph
2.	Geometric Design Standards Carriage width	Two lane carriage way
3	Camber (Bi directional)	2.5% for paved carriage way
4	Super elevation	Limited to 4%
5	Footpath	Minimum width 1.8m
6	Kerb	Barrier/ semi barrier/ Mountable (Barrier type recommended)
7	Extra Widening at Curves	Nil for Radius above 300m
8	Gradient	Maximum Gradient-4.0 % (1 in 25) Minimum Gradient for Drainage - 0.5 % (desirable minimum) & 0.3 % (Absolute minimum).

3.2 Design Standards Related to Pavement Design

Design standards related to Pavement design are essentially based on the guidelinesgiven in IRC: 37 - 2018 "Tentative Guidelines for the Design of Flexible Pavements"The suggested design values / standards and recommended values based on site conditionsand data analysis are detailed in Table and are adapted in the design.

Sl No	Design parameters	Design values
1	Pavement design	RC: 37 2018 Tentative Guidelines for the Design of Flexible Pavements
2	Initial Traffic	In terms of CVPD, vehicles weighing more than 3 ton
3	Traffic growth rate	5%

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4	Design Life	10 years
5	Vehicle damage factor	1.5 to 4.5
6	Soil Characteristics	CBR Value

3.3 Design Standards Related to Rigid Pavement Design

Design standards related to Rigid Pavement are essentially based on the guidelines givenIn IRC: 62 - 2014"Guidelines for Strengthening of Rigid Pavements Using California Bearing Ratio", Penetration Resistance of soil and aggregate Properties

Sl No	Design parameters	Design values
1	Pavement design	IRC: 62- 2014 Tentative Guidelines for the Design of Rigid Pavements
2	Initial Traffic	In terms of CVPD, vehicles weighing more than 3 ton
3	Reliability	85%
4	Design Life	5 to 10 years
5	Equivalency factors	1.22
6	Soil Characteristics	CBR Value

3.4 Design Standards Related to Overlay Design

Design standards related to overlay design are essentially based on the guidelines givenIn IRC: 81 - 1997 "Guidelines for Strengthening of Flexible Road Pavements UsingBenkelman Beam Deflection Technique". The suggested design values / standards and Recommended values based on site conditions and data analysis are detailed in Table and are adapted in the design

Sl No	Design parameters	Design values
1	Overlay Design	RC: 81-1997 "Guidelines for Strengthening of Flexible Road Pavements Using Benkelman BeamDeflection Technique"
2	Design Life	10 years

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3	Correction Factors	Temperature Correction Factor Correction for Seasonal Variation (inclusive of correction for moisture content, soil type and rainfall)
4	Minimum Thickness	From structural considerations recommended minimum bituminous overlay thickness is 50 mm BDM(minimum) or 50mm BM (as required) +40mm BC
5	Wearing Course Material	Bituminous Concrete with Crumb Rubber Modified Bitumen

3.5 Design Standards Related to Road Drainage

Drainage of water from pavement surface is of paramount importance as far as preserving theAssets created by investing huge funds in addition to maintaining the structural soundness and Frictional efficiency of the road. Design standards related to road drainage are essentially based on the Deadlines given in IRC: SP: 42-1994 "Guidelines on Road Drainage" and in IRC: SP: 50 – 2013 delines on Urban Drainage". The suggested design values / standards are detailed in Table

Sl No	Design parameters	Design values
1	Camber	1.7-2 5 % (bi-directional) for carriageway (camber of 3% is adopted)
2	Longitudinal Gradient	Minimum 0 3-05% for satisfactory drainage
3	Drain Type	Cast in situ RCC box drain with Precast RCC cover slab RCC box culverts across cross roads.
4	For Existing Drains	Desilting and Rectification of Damaged Portion

3.6 Design Standards Related to Road Furniture and Appurtenances

Utility and importance of the road are greatly enhanced by installing road furniture and appurtenances at appropriate locations along the project road, which ensures improved road safety. Planning and design of road furniture and appurtenances are as per the guidelines stipulated in IRC. Detailing of each of these components has been done so as to integrate the same with the road improvement scheme. The suggested design values / standards are detailed in table

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Sl No	Design parameters	Design values
1	Road Markings	IRC:35-1997 "Code of Practice for Road Markings
2	Road Signs	IRC: 67-2012 "Code of Practice for Road Signs"

Detailed Brief Note of Work

Estimate Name: Comprehensive Development of Roads & Drains in LG Ramanna Layout, Freedom Fighter Colony, Narasimha Swamy Layout and Surrounding areas in W No.69 under PACKAGE- 2022-23 RRN-DIV-(12).

Constituency : Rajarajeshwari Nagara Constituency.

Zone : R.R.Nagar Zone.

Division: RR Nagara Division.

Sub Division: Laggere Sub Division.

Below Roads identified and Shown by concern Assistant Engineer ward no.69.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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CROSS SECTION

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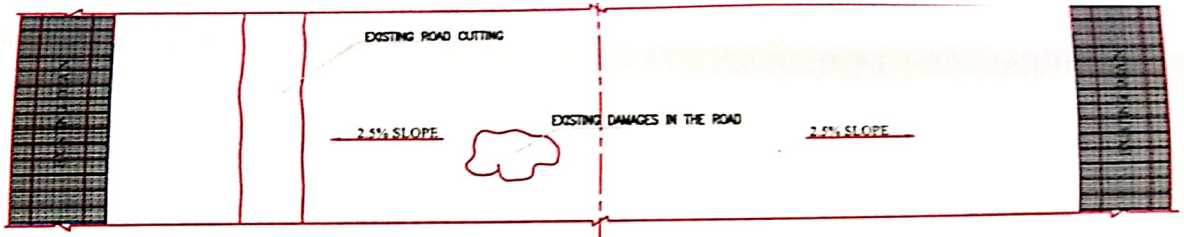
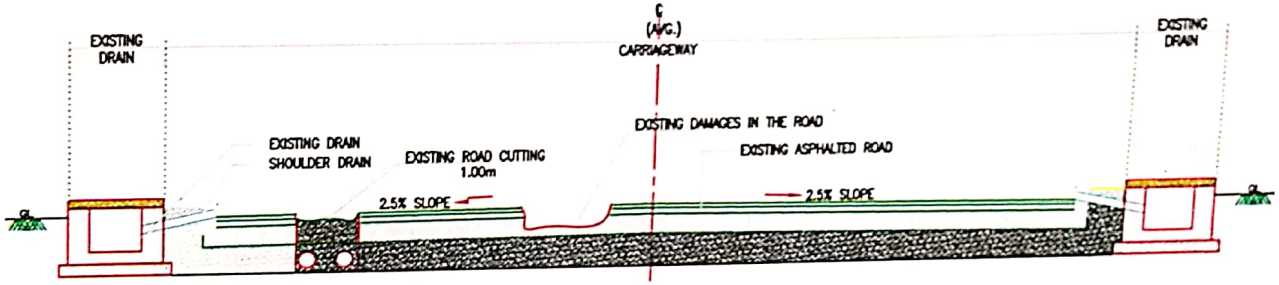
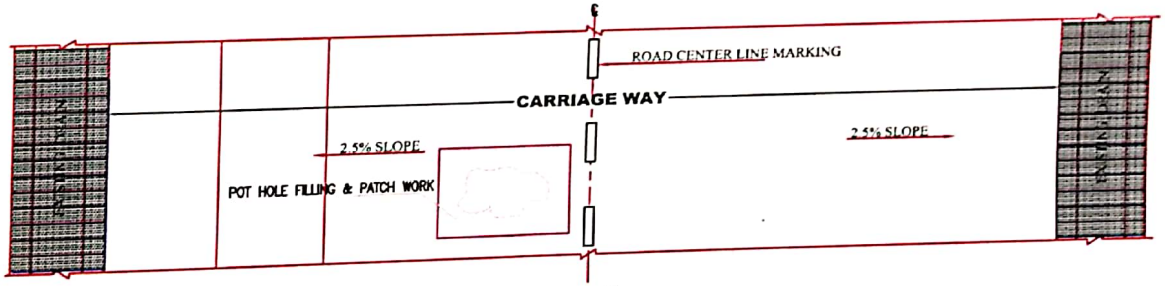


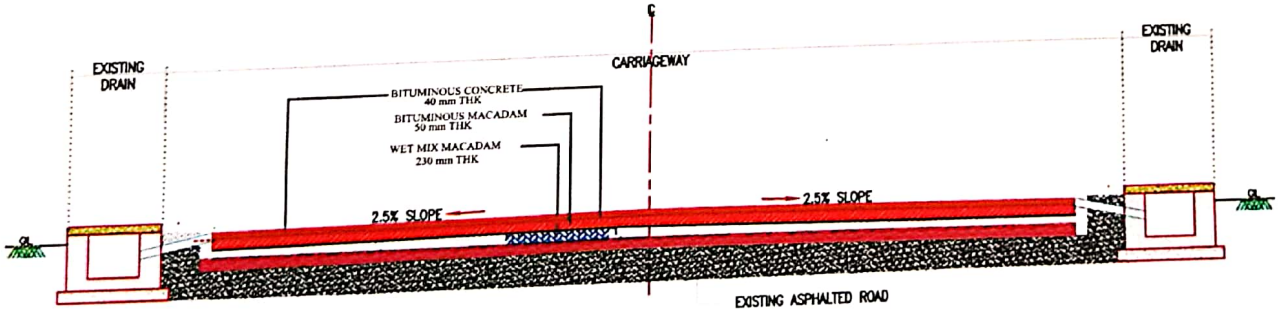
EXISTING PLAN



EXISTING TYPICAL CROSS SECTION



PLAN



PROPOSED TYPICAL CROSS SECTION OF ASPHALT ROAD

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

NOTES:

LEGEND:

REV NO	DATE	REMARKS

BRUHAT BANGALORE MAHANAGARA PALIKE

EXISTING & PROPOSED CROSS SECTION ROAD

DATE	REV	SCALE	DRAWN	CHECKED	APPROVED
		AS SHOWN			

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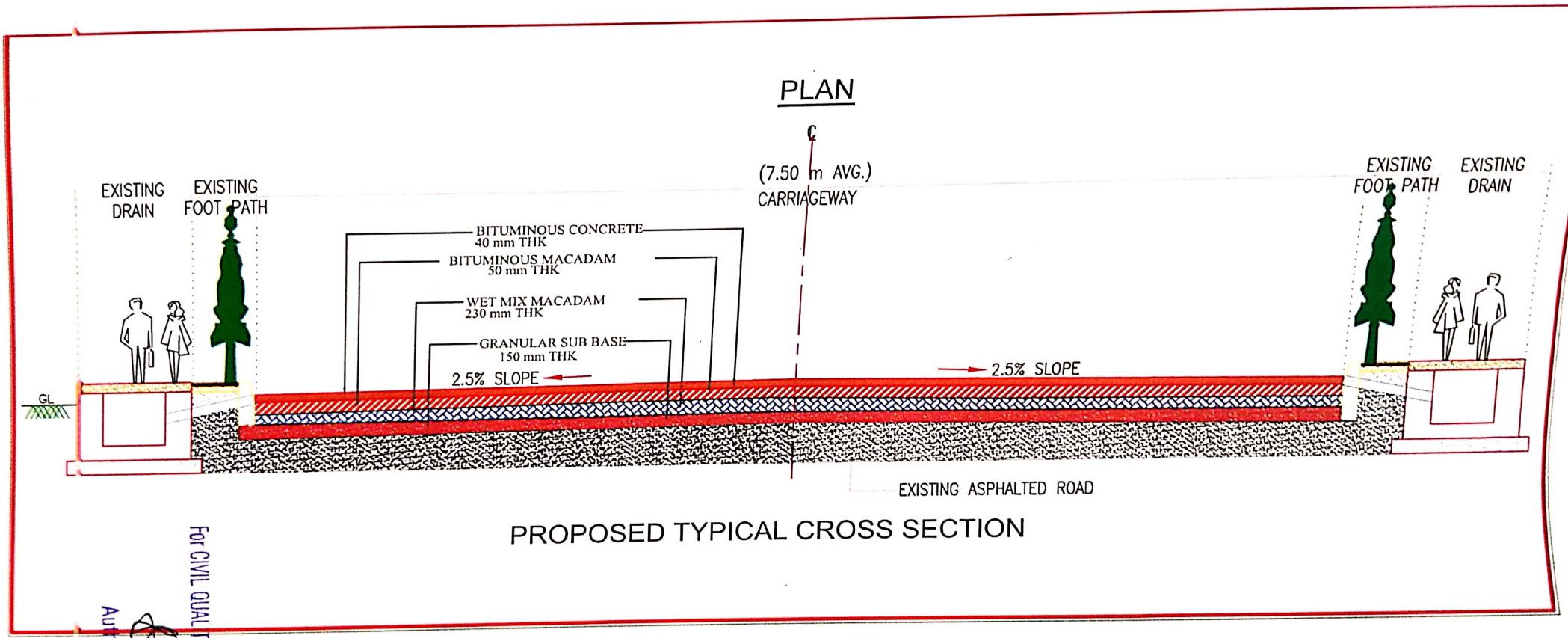

PROPOSED TYPICAL CROSS SECTION

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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BRUHAT BANGALORE MAHANAGARA PALIKE					
Executive Engineer - Road Infrastructure Yelahanka division					
Rate Analysis for Removing and Resetting of Footpath Slab					
Sl No.	Description	Unit	Qty	Rate	Amount
	Removing and Resetting of Footpath Slab				
	Consider 10.00 Sqm				
	Labour				
A	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day	1	486.22	486.22
B	Mazdoor light (Blacksmith Assistant) (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	3	486.22	1458.66
			Total		**1944.88**
		Add Over Head Charges 10%			194.49
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			213.94
		Cost of Rs. 10.00 Sqm			**2353.30**
		Rate per Sqm			235.33
		Round Off			-0.33
		Net Rate Per Sqm			**235.00**

Note 1.The item rates are adoptd as per Schedule of Rate2020-21 Dated 18.03.2022

2.Rate ananlysis shall be revised acccording to periodical change in rate

Assistant Engineer
RI Yelahanka division

Asst Exec. Engineer
RI Yelahanka division

Executive Engineer
RI Yelahanka division

"Removing & Resetting of Footpath Slabs ಅಂಶಕ್ಕೆ ರೂ. 235.00 /sqm"

"ಸದರಿ ದರಗಳನ್ನು ಅಂದಾಜುಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಿಕೊಳ್ಳಲು ಅನುಮೋದಿಸಿದೆ"

Superintending Engineer
Road Infrastructure
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 560 002

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Road Infrastructure Yelahanka division

Rate Analysis for Removing and Resetting of Kerb Stones

Sl No.	Description	Unit	Qty	Rate	Amount
	Removing and Resetting of Kerb Stones				
	Consider 10.00 m				
	Labour				
A	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day	1	486.22	486.22
B	Mazdoor light (Blacksmith Assistant) (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	1	486.22	486.22
			Total		**972.44**
		Add Over Head Charges 10%			97.24
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			106.97
		Cost of Rs. 10.00 m			**1176.65**
		Rate per m			117.67
		Round Off			0.33
		Net Rate Per m			**118.00**

Note 1.The item rates are adoptd as per Schedule of Rate2020-21 Dated 18.03.2022

2. Rate ananlysis shall be revised acccording to periodical change in rate

Assistant Engineer
RI Yelahanka division

Asst Exec. Engineer
RI Yelahanka division

Executive Engineer
RI Yelahanka division

" Removing & Resetting of Kerb Stones - Rs. 118.00 /mts
ಅಂಕವನ್ನು ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಿಕೊಳ್ಳಲು
ಅನುಮಾದಿಸಿದೆ "

Superintending Engineer
Road Infrastructure
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 560 002

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Road Infrastructure Yelahanka division

Rate Analysis for Removing Covering Slab of Drain and stacking

Sl No.	Description	Unit	Qty	Rate	Amount
	Removing Covering Slab of Drain and stacking				
	Consider 10.00 Sqm				
	Labour				
A	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day	1	486.22	486.22
B	Mazdoor light (Blacksmith Assistant) (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	1	486.22	486.22
			Total		972.44
		Add Over Head Charges 10%			97.24
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			106.97
		Cost of Rs. 10.00 Sqm			1176.65
		Rate per Sqm			117.67
		Round Off			0.33
		Net Rate Per Sqm			118.00

Note 1.The item rates are adoptd as per Schedule of Rate2020-21 Dated 18.03.2022
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Assistant Engineer
RI Yelahanka division

Asst Exec. Engineer
RI Yelahanka division

Executive Engineer
RI Yelahanka division

"Removing Covering Slabs of Drain & stacking"
ಅಂಕಕ್ಕೆ ದ Rate analysis ಅಂತೆ ರೂ - 118.00/sqm
ದರಗಳನ್ನು ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಲು
ಅನುಮೋದಿಸಿದೆ"

Superintending Engineer
Road Infrastructure
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Bengaluru - 560 002

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Road Infrastructure Yelahanka division

Rate Analysis for Milling the bituminous pavement surface upto a depth of 55 mm

Sl No.	Description	Unit	Qty	Rate	Amount
	Milling the bituminous pavement surface upto a depth of 55 mm using milling machine, to make a uniform surface without disturbing the base, cleaning the milled surface, including cost of all labour charges and hire charges of machineries etc complete., including stacking the milled material on the sides of road.				
	Consider 1500.00 Sqm				
	Machinary				
A	Milling Machine with 1 meter Drum Width per day of 8Hrs (Sl no 64, Page no A-46)	Hr	8	6851.00	54808.00
B	Tipper-14 m3 x 2 Nos (8*2=16 hrs) (Sl no 122, Page no A-48)	Hr	16	2019.00	32304.00
	Labour				
A	Literate labour (From Vol, Labour rates, Highly skilled no. 1, Pg No. A-49)	Day	1	526.22	526.22
B	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day	5	486.22	2431.10
C	Mazdoor light (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	3	486.22	1458.66
			Total		**91527.98**
		Add Over Head Charges 10%			9152.80
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			10068.08
		Cost of Rs. 1500.00 Sqm			**110748.86**
		Rate per 1Sqm			73.83
		Round Off			0.17
		Net Rate Per Sqm			**74.00**

Note 1.The item rates are adoptd as per Schedule of Rate2020-21 Dated 18.03.2022
2.Rate ananlysis shall be revised acccording to periodical change in rate

Assistant Engineer
RI Yelahanka division

Asst.Exec. Engineer
RI Yelahanka division

Executive Engineer
RI Yelahanka division

"Bituminous Pavement Surface upto a depth of 55 mm" ಅಂತಿಕ್ಕೆ ರೂ. Rs.741-Sqm"
ಸದರಿ ದರಗಳನ್ನು ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಿಕೊಳ್ಳಲು ಅನುಮೋದಿಸಿದೆ.

Superintending Engineer
Road Infrastructure
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 560 002

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Road Infrastructure Yelahanka division

DATA RATE FOR 250mm PRECAST SLAB

Sl No	Description of Items		No	Length m	Width m	Depth m	Quantity	Rate	Amount
1	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2of PW, P&IWTD S.R 2021-22)								
	Basic rate	6,256.00							
	10% AW	625.60							
	Total	6,881.60							
		Cum							
			15	1.50	0.60	0.25	3.38		
							3.38	6,881.60	23,225.40
2	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.NO 13.1 Page No 99, PWD SR 2021-22)								
	Basic rate/ Issue Rate	83,780.00							
	10% AW	8,378.00							
	Sub Total	92,158.00							
		Tonne	15.00		0.025		0.375		
	Per Slab = 25 kgs						0.375	92,158.00	34,559.25
3	Laying and fixing Precast slabs of drains and pointing in C.M (1:3)								
		Sqm							
			15	1.50	0.60		13.50		
							13.5	6.60	89.10
	Rate Analysis								
a.	R & R stone slab of drains			123.00					
b.	BS slab of drain and stacking			117.00					
	Arrived rate for fixing (a-b)			6.00					
	Add 10% AW			0.60					
	Total rate in Rs.			6.60					
4	Transportation and crane charges (2 hr a day)								
	Crane with grab 0.75 m3 capacity, Vol I, P A-44, Sl No. 20		Hr	2			2.00		
							2.00	797.00	1,594.00
							Total		59,467.75

Cost per Sqm = Total / 15*1.5*0.6 = 59,467.75 / 13.50 = 4405.02 Say 4400

Note 1.The item rates are adoptd as per Schedule of Rate2020-21 Dated 18.03.2022
2.Rate ananlysis shall be revised acccording to periodical change in rate

Assistant Engineer
RI Yelahanka division

Asst Exec. Engineer
RI Yelahanka division

Executive Engineer
RI Yelahanka division

"Pre cast slab 250 mm ಗೆ ರೂ. 4,400/sqm" [illegible]

Superintending Engineer
Road Infrastructure
Bruhat Bengaluru Mahanagara Palike

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BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, RR NAGAR DIVISION

Name of Works : Improvements of CC Roads,Drains & Culverts in LG Ramanna Layout and Surrounding areas in ward no 69, Laggere

DETAILED ESTIMATE

Estimated Cost= 5,00,00,000.00

No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) Data Rate								
		Cum							
	Ward No 69								
	LAVAKIHUSHA NAGARA								
	kapila nagara 40ft road		2	189.00	0.90		340.20		
	Ganesha electricals		2	277.00	0.90		498.60		
	2nd Cross Road		2	266.00	0.90		478.80		
	MG chicken centre		2	276.00	1.20		662.40		
	Adishakthi tmpl rd		2	270.00	0.90		486.00		
	Nanjundeshwara swammy temple road		2	230.00	0.90		414.00		
	Michael provision store		2	90.00	0.90		162.00		
	veerbhadreshwara		2	99.00	0.90		178.20		
	ambruth hot chips		2	82.00	1.20		196.80		
	cross road		2	82.00	1.20		196.80		
	cross road		2	80.00	1.20		192.00		
	lakshmi provison store		2	77.00	1.20		184.80		
	kankeshwara stores		2	75.00	1.20		180.00		
	3rd main road		2	502.00	1.20		1204.80		
	4th main road		2	488.00	1.20		1171.20		
	Nanjundeshwara swammy templen main road		2	576.00	1.20		1382.40		
	5th main road		2	489.00	1.20		1173.60		
	cross road		2	98.00	1.20		235.20		
	cross road		2	112.00	1.20		268.80		
	cross road		2	110.00	1.20		264.00		
	Narashimha swamy Temple								
	Laggere main road		2	487.00	1.20		1168.80		
	11th cross road		2	138.00	1.20		331.20		
	10th cross road		2	140.00	1.20		336.00		
	9th cross road		2	138.00	1.20		331.20		
	2nd main road		2	102.00	1.20		244.80		
	1st cross road		2	50.00	0.90		90.00		
	8th cross road		2	85.00	0.90		153.00		
	1st A main road		2	45.00	1.20		108.00		
	7th cross road		2	83.00	0.90		149.40		
	6th cross road		2	87.00	0.90		156.60		
	cross road		2	32.00	0.90		57.60		
	1st cross road		2	68.00	0.90		122.40		
	2nd cross road		2	56.00	1.20		134.40		
	cross road		2	87.00	1.20		208.80		
	2nd main road		2	521.00	1.20		1250.40		
	Bhyraveshwara Nagara								
	2nd A cross road		2	458.00	1.20		1099.20		
	meghana provision		2	80.00	1.20		192.00		
	ammaji provision		2	43.00	1.20		103.20		
	cross road		2	38.00	1.20		91.20		
	cross road		2	40.00	1.20		96.00		
	cross road		2	92.00	0.90		165.60		
	bhavani tool tec		2	95.00	0.90		171.00		
	cross road		2	43.00	1.20		103.20		

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Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
cross road		2	102.00	0.90		183.60		
5th cross road		2	202.00	0.90		363.60		
1st main road		2	165.00	0.90		297.00		
cross road		2	155.00	0.90		279.00		
2nd A cross road		2	72.00	1.20		172.80		
cross road		2	180.00	1.20		432.00		
2nd B main 5th cross road		2	125.00	1.20		300.00		
6th cross road		2	260.00	0.90		468.00		
6th B cross road		2	250.00	0.90		450.00		
5th B cross road		2	203.00	0.90		365.40		
1st main road		2	215.00	1.20		516.00		
2nd B cross road		2	210.00	1.20		504.00		
RAJIV GANDHI NAGARA								
2nd main road		1	188.00	1.20		225.60		
1st main road		1	185.00	0.90		166.50		
kalabyraweshwara temple road		1	476.00	0.90		428.40		
5th cross road		1	142.00	0.90		127.80		
4th cross road		1	270.00	1.20		324.00		
Missing And Broken Slab 40 %						-5885.28		
					Total Quantity	16453.02	212.00	3488040.24
Data Rate								
Data Rate	212.00							
Total Amount	212.00							

2 Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.In all kinds of soils Depth upto 1.5 m.Item No.1.4.1,Page No.A(5), Vol I CSR 21-22

	Cum							
For Corner Slab								
Ward No 69		177	15.00	0.60	0.62	987.66		
For Disilting								
Ward No 69								
kapila nagara 40ft road		2	189.00	0.60	0.60	136.08		
Ganesha electricals		2	277.00	0.60	0.60	199.44		
2nd Cross Road		2	266.00	0.60	0.50	159.60		
MG chicken centre		2	276.00	0.60	0.60	198.72		
Adishakthi tmpl rd		2	270.00	0.60	0.60	194.40		
Nanjundeshwara swammy temple road		2	230.00	0.60	0.60	165.60		
Michael provision store		2	90.00	0.60	0.60	64.80		
veerbhadreshwara		2	99.00	0.60	0.60	71.28		
ambruth hot chips		2	82.00	0.60	0.60	59.04		
cross road		2	82.00	0.60	0.60	59.04		
cross road								
lakshmi provison store		2	77.00	0.60	0.50	46.20		
kankeshwara stores		2	75.00	0.60	0.50	45.00		
3rd main road		2	502.00	0.60	0.50	301.20		
4th main road		2	488.00	0.60	0.50	292.80		
Nanjundeshwara swammy templen main road		2	576.00	0.60	0.50	345.60		
5th main road		2	489.00	0.60	0.50	293.40		
cross road		2	98.00	0.60	0.50	58.80		
cross road		2	112.00	0.60	0.50	67.20		
cross road								

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No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	Laggere main road		2	487.00	0.60	0.50	292.20		
	11th cross road		2	138.00	0.60	0.50	82.80		
	10th cross road		2	140.00	0.60	0.50	84.00		
	9th cross road		2	138.00	0.60	0.50	82.80		
	2nd main road		2	102.00	0.60	0.50	61.20		
	1st cross road		2	50.00	0.60	0.50	30.00		
	8th cross road		2	85.00	0.60	0.50	51.00		
	1st A main road		2	45.00	0.60	0.50	27.00		
	7th cross road		2	83.00	0.60	0.50	49.80		
	6th cross road		2	87.00	0.60	0.50	52.20		
	cross road		2	32.00	0.60	0.50	19.20		
	1st cross road		2	68.00	0.60	0.50	40.80		
	2nd cross road		2	56.00	0.60	0.50	33.60		
	cross road		2	87.00	0.60	0.50	52.20		
	2nd main road		2	521.00	0.60	0.50	312.60		
	Bhyraveshwara Nagara		0	0.00	0.60	0.50	0.00		
	2nd A cross road		2	458.00	0.60	0.50	274.80		
	meghana provision		2	80.00	0.60	0.50	48.00		
	ammaji provision		2	43.00	0.60	0.50	25.80		
	cross road		2	38.00	0.60	0.50	22.80		
	cross road		2	40.00	0.60	0.50	24.00		
	cross road		2	92.00	0.60	0.50	55.20		
	bhavani tool tec		2	95.00	0.60	0.50	57.00		
	cross road		2	43.00	0.60	0.50	25.80		
	cross road		2	102.00	0.60	0.50	61.20		
	5th cross road		2	202.00	0.60	0.50	121.20		
	1st main road		2	165.00	0.60	0.50	99.00		
	cross road		2	155.00	0.60	0.50	93.00		
	2nd A cross road		2	72.00	0.60	0.50	43.20		
	cross road		2	180.00	0.60	0.50	108.00		
	2nd B main 5th cross road		2	125.00	0.60	0.50	75.00		
	6th cross road		2	260.00	0.60	0.50	156.00		
	6th B cross road		2	250.00	0.60	0.50	150.00		
	5th B cross road		2	203.00	0.60	0.50	121.80		
	1st main road		2	215.00	0.60	0.50	129.00		
	2nd B cross road		2	210.00	0.60	0.50	126.00		
	RAJIV GANDHI NAGARA								
	2nd main road		1	188.00	0.60	0.50	56.40		
	1st main road		1	185.00	0.60	0.50	55.50		
	kalabyraweshwara		1	476.00	0.60	0.50	142.80		
	5th cross road		1	142.00	0.60	0.50	42.60		
	4th cross road		1	270.00	0.60	0.50	81.00		
						Total Quantity	7212.36	363.56	2622125.60
	Rate Analysis								
	Basic Rate	186.00							
	Loading & unLoading	118.00							
	Add for lead for earth (1.28 Tonne / Cum)	40.96							
	Area Weightage @10%	18.60							
	Total Amount	363.56							
3	Providing and laying in position **plain cement concrete Mix 1:3:6 (M10)** Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)								
		Cum							
	For Corner Slab								
	Ward No 69		354	2.30	0.20	0.15	24.43		

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Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
Rate Analysis					Total Quantity	24.43	6327.20	154548.19
Basic Rate	5752.00							
Area Weightage @10%	575.20							
Total Amount	6327.20							
Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.I.No 6.32 P.No 17 Volume 2 SR 2021-22								
	Sqm							
For Corner Slab								
Ward No 69		354	2.30		0.40	325.68		
For Solid Block								
Ward No 69								
kapila nagara 40ft road		4	103.95		0.20	83.16		
Ganesha electricals		4	152.35		0.20	121.88		
2nd Cross Road		4	164.92		0.20	131.94		
MG chicken centre		4	179.40		0.20	143.52		
Adishakthi tmpl rd		4	175.50		0.20	140.40		
Nanjundeshwara swammy temple road		4	149.50		0.20	119.60		
Michael provision store		4	58.50		0.20	46.80		
veerbhadreshwara		4	64.35		0.20	51.48		
ambruth hot chips		4	53.30		0.20	42.64		
cross road		4	53.30		0.20	42.64		
cross road								
lakshmi provison store		4	50.05		0.20	40.04		
kankeshwara stores		4	48.75		0.20	39.00		
3rd main road		4	326.30		0.20	261.04		
4th main road		4	317.20		0.20	253.76		
Nanjundeshwara swammy templen main road		4	374.40		0.20	299.52		
5th main road		4	317.85		0.20	254.28		
cross road		4	63.70		0.20	50.96		
cross road		4	72.80		0.20	58.24		
cross road								
Laggere main road		4	316.55		0.40	506.48		
11th cross road		4	89.70		0.20	71.76		
10th cross road		4	102.20		0.20	81.76		
9th cross road		4	117.30		0.20	93.84		
2nd main road		4	86.70		0.20	69.36		
1st cross road		4	42.50		0.20	34.00		
8th cross road		4	72.25		0.20	57.80		
1st A main road		4	38.25		0.20	30.60		
7th cross road		4	70.55		0.20	56.44		
6th cross road		4	73.95		0.20	59.16		
cross road		4	27.20		0.20	21.76		
1st cross road		4	57.80		0.20	46.24		
2nd cross road		4	47.60		0.20	38.08		
cross road		4	73.95		0.20	59.16		
2nd main road		4	442.85		0.20	354.28		
Bhyraveshwara Nagara								
2nd A cross road		4	389.30		0.20	311.44		
meghana provision		4	68.00		0.20	54.40		
ammaji provision		4	36.55		0.20	29.24		
cross road		4	32.30		0.20	25.84		
cross road		4	34.00		0.20	27.20		
cross road		4	78.20		0.20	62.56		
bhavani tool tec		4	80.75		0.20	64.60		

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Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
cross road		4	36.55		0.20	29.24		
cross road		4	86.70		0.20	69.36		
5th cross road		4	171.70		0.20	137.36		
1st main road		4	140.25		0.20	112.20		
cross road		4	131.75		0.20	105.40		
2nd A cross road		4	61.20		0.20	48.96		
cross road		4	153.00		0.20	122.40		
2nd B main 5th cross road		4	106.25		0.20	85.00		
6th cross road		4	221.00		0.20	176.80		
6th B cross road		4	212.50		0.20	170.00		
5th B cross road		4	172.55		0.20	138.04		
1st main road		4	182.75		0.20	146.20		
2nd B cross road		4	178.50		0.20	142.80		
RAJIV GANDHI		0	0.00		0.20	0.00		
2nd main road		2	159.80		0.20	63.92		
1st main road		2	157.25		0.20	62.90		
kalabyraweshwara		2	404.60		0.20	161.84		
5th cross road		2	120.70		0.20	48.28		
4th cross road		2	229.50		0.20	91.80		
					Total Quantity	6575.08	1322.20	8693565.49
Rate Analysis								
Basic Rate	1202.00							
Area Weightage @10%	120.20							
Total Amount	1322.20							

Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.Item No.8.19.1,Page No.44, Vol II SR 21-22

	Sqm							
Pointing								
Ward No 69								
kapila nagara 40ft road		4	103.95		0.20	83.16		
Ganesha electricals		4	152.35		0.20	121.88		
2nd Cross Road		4	164.92		0.20	131.94		
MG chicken centre		4	179.40		0.20	143.52		
Adishakthi tmpl rd		4	175.50		0.20	140.40		
Nanjundeshwara swammy temple road		4	149.50		0.20	119.60		
Michael provision store		4	58.50		0.20	46.80		
veerbhadreshwara		4	64.35		0.20	51.48		
ambruth hot chips		4	53.30		0.20	42.64		
cross road		4	53.30		0.20	42.64		
cross road								
lakshmi provison store		4	50.05		0.20	40.04		
kankeshwara stores		4	48.75		0.20	39.00		
3rd main road		4	326.30		0.20	261.04		
4th main road		4	317.20		0.20	253.76		
Nanjundeshwara swammy templen main road		4	374.40		0.20	299.52		
5th main road		4	317.85		0.20	254.28		
cross road		4	63.70		0.20	50.96		
cross road		4	72.80		0.20	58.24		
cross road								
Laggere main road		4	316.55		0.40	506.48		
11th cross road		4	89.70		0.20	71.76		
10th cross road		4	102.20		0.20	81.76		
9th cross road		4	117.30		0.20	93.84		
2nd main road		4	86.70		0.20	69.36		
1st cross road		4	42.50		0.20	34.00		
8th cross road		4	72.25		0.20	57.80		
1st A main road		4	38.25		0.20	30.60		
7th cross road		4	70.55		0.20	56.44		

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	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	6th cross road		4	73.95		0.20	59.16		
	cross road		4	27.20		0.20	21.76		
	1st cross road		4	57.80		0.20	46.24		
	2nd cross road		4	47.60		0.20	38.08		
	cross road		4	73.95		0.20	59.16		
	2nd main road		4	442.85		0.20	354.28		
	Bhyraveshwara Nagara								
	2nd A cross road		4	389.30		0.20	311.44		
	meghana provision		4	68.00		0.20	54.40		
	ammaji provision		4	36.55		0.20	29.24		
	cross road		4	32.30		0.20	25.84		
	cross road		4	34.00		0.20	27.20		
	cross road		4	78.20		0.20	62.56		
	bhavani tool tec		4	80.75		0.20	64.60		
	cross road		4	36.55		0.20	29.24		
	cross road		4	86.70		0.20	69.36		
	5th cross road		4	171.70		0.20	137.36		
	1st main road		4	140.25		0.20	112.20		
	cross road		4	131.75		0.20	105.40		
	2nd A cross road		4	61.20		0.20	48.96		
	cross road		4	153.00		0.20	122.40		
	2nd B main 5th cross road		4	106.25		0.20	85.00		
	6th cross road		4	221.00		0.20	176.80		
	6th B cross road		4	212.50		0.20	170.00		
	5th B cross road		4	172.55		0.20	138.04		
	1st main road		4	182.75		0.20	146.20		
	2nd B cross road		4	178.50		0.20	142.80		
	RAJIV GANDHI NAGARA		0	0.00		0.20	0.00		
	2nd main road		2	159.80		0.20	63.92		
	1st main road		2	157.25		0.20	62.90		
	kalabyraweshwara temple road		2	404.60		0.20	161.84		
	5th cross road		2	120.70		0.20	48.28		
	4th cross road		2	229.50		0.20	91.80		
						Total Quantity	6249.40	220.00	1374867.12
	Rate Analysis								
	Basic Rate	200.00							
	Area Weightage @10%	20.00							
	Total Amount	220.00							
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate.Item No.2.1.4,Page No.15, Vol I SR 21-22								
		Sqm							
	Plastering								
	Ward No 69								
	kapila nagara 40ft road		4	103.95	0.20	0.10	8.32		
	Ganesha electricals		4	152.35	0.20	0.10	12.19		
	2nd Cross Road		4	164.92	0.20	0.10	13.19		
	MG chicken centre		4	179.40	0.20	0.10	14.35		

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Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
Adishakthi tmpl rd		4	175.50	0.20	0.10	14.04		
Nanjundeshwara swammy temple road		4	149.50	0.20	0.10	11.96		
Michael provision store		4	58.50	0.20	0.10	4.68		
veerbhadreshwara		4	64.35	0.20	0.10	5.15		
ambruth hot chips		4	53.30	0.20	0.10	4.26		
cross road		4	53.30	0.20	0.10	4.26		
cross road								
lakshmi provison store		4	50.05	0.20	0.10	4.00		
kankeshwara stores		4	48.75	0.20	0.10	3.90		
3rd main road		4	326.30	0.20	0.10	26.10		
4th main road		4	317.20	0.20	0.10	25.38		
Nanjundeshwara swammy templen main road		4	374.40	0.20	0.10	29.95		
5th main road		4	317.85	0.20	0.10	25.43		
cross road		4	63.70	0.20	0.10	5.10		
cross road		4	72.80	0.20	0.10	5.82		
cross road								
Laggere main road		4	316.55	0.20	0.10	25.32		
11th cross road		4	89.70	0.20	0.10	7.18		
10th cross road		4	102.20	0.20	0.10	8.18		
9th cross road		4	117.30	0.20	0.10	9.38		
2nd main road		4	86.70	0.20	0.10	6.94		
1st cross road		4	42.50	0.20	0.10	3.40		
8th cross road		4	72.25	0.20	0.10	5.78		
1st A main road		4	38.25	0.20	0.10	3.06		
7th cross road		4	70.55	0.20	0.10	5.64		
6th cross road		4	73.95	0.20	0.10	5.92		
cross road		4	27.20	0.20	0.10	2.18		
1st cross road		4	57.80	0.20	0.10	4.62		
2nd cross road		4	47.60	0.20	0.10	3.81		
cross road		4	73.95	0.20	0.10	5.92		
2nd main road		4	442.85	0.20	0.10	35.43		
Bhyraveshwara Nagara		0	0.00	0.20	0.10	0.00		
2nd A cross road		4	389.30	0.20	0.10	31.14		
meghana provision		4	68.00	0.20	0.10	5.44		
ammaji provision		4	36.55	0.20	0.10	2.92		
cross road		4	32.30	0.20	0.10	2.58		
cross road		4	34.00	0.20	0.10	2.72		
cross road		4	78.20	0.20	0.10	6.26		
bhavani tool tec		4	80.75	0.20	0.10	6.46		
cross road		4	36.55	0.20	0.10	2.92		
cross road		4	86.70	0.20	0.10	6.94		
5th cross road		4	171.70	0.20	0.10	13.74		
1st main road		4	140.25	0.20	0.10	11.22		
cross road		4	131.75	0.20	0.10	10.54		
2nd A cross road		4	61.20	0.20	0.10	4.90		
cross road		4	153.00	0.20	0.10	12.24		
2nd B main 5th cross road		4	106.25	0.20	0.10	8.50		
6th cross road		4	221.00	0.20	0.10	17.68		
6th B cross road		4	212.50	0.20	0.10	17.00		
5th B cross road		4	172.55	0.20	0.10	13.80		
1st main road		4	182.75	0.20	0.10	14.62		
2nd B cross road		4	178.50	0.20	0.10	14.28		
RAJIV GANDHI NAGARA								
2nd main road		2	159.80	0.20	0.10	6.39		
1st main road		2	157.25	0.20	0.10	6.29		

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	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	kalabyraweshwara temple road		2	404.60	0.20	0.10	16.18		
	5th cross road		2	120.70	0.20	0.10	4.83		
	4th cross road		2	229.50	0.20	0.10	9.18		
						Total Quantity	599.62	6518.60	3908654.25
	Rate Analysis								
	Basic Rate	5926.00							
	Area Weightage @10%	592.60							
	Total Amount	6518.60							
	Providing B S Slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		Sqm							
	Missing And Broken Slab 40 %						5885.28		
						Total Quantity	5885.28	837.00	4925979.36
	Rate Analysis								
	Basic Rate	837.00							
	Total Amount	837.00							
	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		Sqm							
	Missing And Broken Slab 40 %						5885.28		
						Total Quantity	5885.28	242.00	1424237.76
	Rate Analysis								
	Basic Rate	242.00							
	Total Amount	242.00							
9	Providing Machine Cutting edges to B S Slabs 2.5cms.wide as per Specifications.(Only Chamfered length Shall be recorded)inclusive of all taxes Complete.,as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		Sqm							
	Missing And Broken Slab 40 %		1	4904.00	3.00		14712.00		
						Total Quantity	14712.00	390.00	5737680.00
	Rate Analysis								
	Basic Rate	390.00							
	Total Amount	390.00							
10	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)								
		Sqm							
	Plastering								
			354	2.30		0.40	325.68		
						Total Quantity	325.68	337.70	109982.14
	Rate Analysis								
	Basic Rate	307.00							
	Area Weightage @10%	30.70							
	Total Amount	337.70							
11	Providing & laying precast drain corner cover slab of 200 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.20) Approved Data rate								
		Sqm							
	New Rcc Drain 1200 cm		53				53.00		
						Total Quantity	53.00	10492.00	556076.00

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Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
Basic Rate	10492.00							
Area Weightage @10%								
Total Amount	10492.00							
Providing & laying precast drain corner cover slab of 200 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.20) Approved Data rate								
	Sqm							
New Rcc Drain 900 cm		124				124.00		
					Total Quantity	124.00	8051.00	998324.00
Basic Rate	8051.00							
Area Weightage @10%								
Total Amount	8051.00							
Providing & laying precast drain slab of 230 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.23) Approved Data rate								
	Sqm							
Missing Slab Culverts		20	7.00	1.50		28.50		
30 % Missing						8.55		
					Total Quantity	8.55	5440.98	46520.38
Basic Rate	5440.98							
Area Weightage @10%								
Total Amount	5440.98							
Removing and resetting of kerb stones.Page No. 270								
	No's							
Ward No 69								
kapila nagara 40ft road		2	103.95			207.90		
Ganesha electricals		2	152.35			304.70		
2nd Cross Road		2	164.92			329.84		
MG chicken centre		2	179.40			358.80		
Adishakthi tmpl rd		2	175.50			351.00		
Nanjundeshwara swammy temple road		2	149.50			299.00		
Michael provision store		2	58.50			117.00		
veerbhadreshwara		2	64.35			128.70		
ambruth hot chips		2	53.30			106.60		
cross road		2	53.30			106.60		
cross road								
lakshmi provison store		2	50.05			100.10		
kankeshwara stores		2	48.75			97.50		
3rd main road		2	326.30			652.60		
4th main road		2	317.20			634.40		
Nanjundeshwara swammy templen main road		2	374.40			748.80		
5th main road		2	317.85			635.70		
cross road		2	63.70			127.40		
cross road		2	72.80			145.60		
cross road								
Laggere main road		2	316.55			633.10		
11th cross road		2	89.70			179.40		
10th cross road		2	102.20			204.40		
9th cross road		2	117.30			234.60		
2nd main road		2	86.70			173.40		
1st cross road		2	42.50			85.00		
8th cross road		2	72.25			144.50		
1st A main road		2	38.25			76.50		
7th cross road		2	70.55			141.10		
6th cross road		2	73.95			147.90		
cross road		2	27.20			54.40		
1st cross road		2	57.80			115.60		

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	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	2nd cross road		2	47.60			95.20		
	cross road		2	73.95			147.90		
	2nd main road		2	442.85			885.70		
	Bhyraveshwara Nagara								
	2nd A cross road		2	389.30			778.60		
	meghana provision		2	68.00			136.00		
	ammaji provision		2	36.55			73.10		
	cross road		2	32.30			64.60		
	cross road		2	34.00			68.00		
	cross road		2	78.20			156.40		
	bhavani tool tec		2	80.75			161.50		
	cross road		2	36.55			73.10		
	cross road		2	86.70			173.40		
	5th cross road		2	171.70			343.40		
	1st main road		2	140.25			280.50		
	cross road		2	131.75			263.50		
	2nd A cross road		2	61.20			122.40		
	cross road		2	153.00			306.00		
	2nd B main 5th cross road		2	106.25			212.50		
	6th cross road		2	221.00			442.00		
	6th B cross road		2	212.50			425.00		
	5th B cross road		2	172.55			345.10		
	1st main road		2	182.75			365.50		
	2nd B cross road		2	178.50			357.00		
	RAJIV GANDHI NAGARA		0	0.00			0.00		
	2nd main road		1	159.80			159.80		
	1st main road		1	157.25			157.25		
	kalabyraweshwara temple road		1	404.60			404.60		
	5th cross road		1	120.70			120.70		
	4th cross road		1	229.50			229.50		
	Missing & Broken35 %						-5246.64		
							9743.75		
							9743.75	118.00	1149762.91
	Data Rate	118.00							
	Total	118.00							
14	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165mm respectively,400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork,curing including cost of materials,labour charges of machinery,loading and unloading,lead and lift,transportation etc., complete as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges)								
		No's							
	Missing & Broken35 %								
							5246.64		
	Length/0.45						11659.19	507.00	5911210.46
	Data Rate	507.00							
	Total	507.00							
15	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces.Painting Two Coats on New Concrete Surfaces.Item No.8.1,Page No.56, Vol III SR 21-22								
		Sqm							

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Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
		1	14990.39		0.30	4497.12		
Basic Rate	85.00					4497.12	93.50	420480.44
Area Weightage @ 10%	8.50							
Total	93.50							

Construction Total Amount	4,15,22,054.34
Add GST Charges 18%	74,73,969.78
Add Detailed Project Report (DPR) and PMC Charges 2.0%	10,00,000.00
Sub Total	4,99,96,024.12
Miscellaneous and unforeseen charges etc.L.S	3,975.88
Grand Total	5,00,00,000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2021-22 of Issue Rates on 07.04.2022

Assistant Engineer
Ward No 69

Asst Exe Engineer
Laggere Sub Division

Executive Engineer
RR Nagar Division

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, RR NAGAR DIVISION

me of Works : Improvements of CC Roads,Drains & Culverts in Freedom Fighter Colony Narasimha swamy Layout and Surrounding areas in ward no 69, Laggere

DETAILED ESTIMATE

Estimated Cost= 5,00,00,000.00

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
			Ward 69						
	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) Data Rate								
		Cum							
	For Corner Slab								
	Ward No 69								
	FREEDOM FIGHTERS COLONY								
	1st cross road		2	45.00	0.90		81.00		
	3rd cross road		2	102.00	0.90		183.60		
	4th cross road		2	185.00	0.90		333.00		
	5th cross road		2	193.00	1.20		463.20		
	6th cross road		2	195.00	0.90		351.00		
	7th cross road		2	190.00	0.90		342.00		
	8th cross road		2	182.00	0.90		327.60		
	9th cross road		2	97.00	0.90		174.60		
	10th cross road		2	92.00	1.20		220.80		
	11th cross road		2	90.00	1.20		216.00		
	12th cross road		2	75.00	1.20		180.00		
	13th cross road		2	105.00	1.20		252.00		
	14th cross road		2	165.00	1.20		396.00		
	9th cross road		2	60.00	1.20		144.00		
	10th cross road		2	52.00	1.20		124.80		
	11th cross road		2	50.00	1.20		120.00		
	32nd cross road		2	305.00	1.20		732.00		
	33rd main road		2	110.00	1.20		264.00		
	2nd main road		2	60.00	1.20		144.00		
	1st main road		2	166.00	1.20		398.40		
	namana foods		2	106.00	1.20		254.40		
	2nd A cross road		2	40.00	1.20		96.00		
	B N aqua		2	86.00	1.20		206.40		
	rangaswamy provision		2	70.00	1.20		168.00		
	lakshmi provision		2	70.00	0.90		126.00		
	service road		2	410.00	0.90		738.00		
	10th B main road		2	220.00	1.20		528.00		
	9th B main road		2	250.00	0.90		450.00		
	8th cross road		2	110.00	1.20		264.00		
	2nd A main road		2	80.00	1.20		192.00		
	2nd B main road		2	86.00	1.20		206.40		
	cross road		2	110.00	1.20		264.00		
	9th cross road		2	92.00	1.20		220.80		
	8th A cross road		2	147.00	0.90		264.60		
	7th main road		2	140.00	0.90		252.00		
	6th A cross road		2	105.00	1.20		252.00		
	5th A cross road		2	436.00	0.90		784.80		
	w0405		2	30.00	0.90		54.00		
	w0505		2	20.00	0.90		36.00		
	KEMPEGOWDA LAYOUT								
	Ganesha temple road		2	46.00	1.20		110.40		
	cross road		2	65.00	1.20		156.00		
	9th cross road		2	127.00	1.20		304.80		
	19th cross road		2	176.00	1.20		422.40		
	w0406		2	272.00	1.20		652.80		
	22nd cross road		2	188.00	0.90		338.40		
	20th cross road		2	290.00	0.90		522.00		
	1st cross road		2	120.00	1.20		288.00		
	2nd cross road		2	263.00	0.90		473.40		

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Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
3rd cross road		2	242.00	0.90		435.60		
w0401		2	385.00	0.90		693.00		
KEMPEGOWDA arch road		2	295.00	0.90		531.00		
PREETHY NAGARA								
laggere main road(bustop)		2	492.00	1.20		1180.80		
cross road		2	52.00	1.20		124.80		
attimaramma tmpl road		2	59.00	1.20		141.60		
milk fresh condiments		2	78.00	1.20		187.20		
siligiri tea point		2	75.00	1.20		180.00		
KBS stores		2	69.00	0.90		124.20		
cross road 1		2	114.00	0.90		205.20		
cross road 2		2	260.00	1.20		624.00		
7th main road		2	262.00	0.90		471.60		
6th main road church road		2	296.00	0.90		532.80		
5th main road		2	330.00	0.90		594.00		
1st main road		2	323.00	0.90		581.40		
RAJIV GANDHI NAGARA								
2nd main road		2	476.00	1.20		1142.40		
1st main road		2	155.00	1.20		372.00		
Cross Rd		1	325.00	1.20		390.00		
muneshwara templ road		1	423.00	0.90		380.70		
Missing And Broken Slab 40 %						-6293.28		
					Total Quantity	16672.62	212.00	3534595.44
Data Rate								
Data Rate	212.00							
Total Amount	212.00							

2 Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.In all kinds of soils Depth upto 1.5 m.Item No.1.4.1,Page No.A(5), Vol I CSR 21-22

	Cum							
For Corner Slab								
Ward No 69		177	15.00	0.60	0.62	987.66		
For Disilting								
Ward No 69								
1st cross road		2	45.00	0.60	0.60	32.40		
3rd cross road		2	102.00	0.60	0.60	73.44		
4th cross road		2	185.00	0.60	0.60	133.20		
5th cross road		2	193.00	0.60	0.60	138.96		
6th cross road		2	195.00	0.60	0.60	140.40		
7th cross road		2	190.00	0.60	0.60	136.80		
8th cross road		2	182.00	0.60	0.60	131.04		
9th cross road		2	97.00	0.60	0.60	69.84		
10th cross road		2	92.00	0.60	0.60	66.24		
11th cross road		2	90.00	0.60	0.60	64.80		
12th cross road		2	75.00	0.60	0.60	54.00		
13th cross road		2	105.00	0.60	0.60	75.60		
14th cross road		2	165.00	0.60	0.60	118.80		
9th cross road		2	60.00	0.60	0.60	43.20		
10th cross road		2	52.00	0.60	0.60	37.44		
11th cross road		2	50.00	0.60	0.60	36.00		
32nd cross road		2	305.00	0.60	0.60	219.60		
33rd main road		2	110.00	0.60	0.60	79.20		
2nd main road		2	60.00	0.60	0.60	43.20		
1st main road		2	166.00	0.60	0.60	119.52		

Scanned with CamScanner

Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
namana foods		2	106.00	0.60	0.60	76.32		
2nd A cross road		2	40.00	0.60	0.60	28.80		
B N aqua		2	86.00	0.60	0.60	61.92		
rangaswamy provision		2	70.00	0.60	0.60	50.40		
lakshmi provision		2	70.00	0.60	0.60	50.40		
service road		2	410.00	0.60	0.60	295.20		
10th B main road		2	220.00	0.60	0.60	158.40		
9th B main road		2	250.00	0.60	0.60	180.00		
8th cross road		2	110.00	0.60	0.60	79.20		
2nd A main road		2	80.00	0.60	0.60	57.60		
2nd B main road		2	86.00	0.60	0.60	61.92		
cross road		2	110.00	0.60	0.60	79.20		
9th cross road		2	92.00	0.60	0.60	66.24		
8th A cross road		2	147.00	0.60	0.60	105.84		
7th main road		2	140.00	0.60	0.60	100.80		
6th A cross road		2	105.00	0.60	0.60	75.60		
5th A cross road		2	436.00	0.60	0.60	313.92		
w0405		2	30.00	0.60	0.60	21.60		
w0505		2	20.00	0.60	0.60	14.40		
KEMPEGOWDA LAYOUT								
Ganesha temple road		2	46.00	0.60	0.60	33.12		
cross road		2	65.00	0.60	0.60	46.80		
9th cross road		2	127.00	0.60	0.60	91.44		
19th cross road		2	176.00	0.60	0.60	126.72		
w0406		2	272.00	0.60	0.60	195.84		
22nd cross road		2	188.00	0.60	0.60	135.36		
20th cross road		2	290.00	0.60	0.60	208.80		
1st cross road		2	120.00	0.60	0.60	86.40		
2nd cross road		2	263.00	0.60	0.60	189.36		
3rd cross road		2	242.00	0.60	0.60	174.24		
w0401		2	385.00	0.60	0.60	277.20		
KEMPEGOWDA arch road		2	295.00	0.60	0.60	212.40		
PREETHY NAGARA								
laggere main road(bustop)		2	492.00	0.60	0.60	354.24		
cross road		2	52.00	0.60	0.60	37.44		
attimaramma tmpl road		2	59.00	0.60	0.60	42.48		
milk fresh condiments		2	78.00	0.60	0.60	56.16		
siligiri tea point		2	75.00	0.60	0.60	54.00		
KBS stores		2	69.00	0.60	0.60	49.68		
cross road 1		2	114.00	0.60	0.60	82.08		
cross road 2		2	260.00	0.60	0.60	187.20		
7th main road		2	262.00	0.60	0.60	188.64		
6th main road church road		2	296.00	0.60	0.60	213.12		
5th main road		2	330.00	0.60	0.60	237.60		
1st main road		2	323.00	0.60	0.60	232.56		
RAJIV GANDHI NAGARA								
2nd main road		2	476.00	0.60	0.60	342.72		
1st main road		2	155.00	0.60	0.60	111.60		
Cross Rd		1	325.00	0.60	0.60	117.00		
muneshwara templ		1	423.00	0.60	0.60	152.28		
					Total Quantity	8915.58	363.56	3241348.26

Rate Analysis	
Basic Rate	186.00
Loading & unLoading	118.00
Add for lead for earth (1.28 Tonne / Cum)	40.96
Area Weightage @10%	18.60
Total Amount	363.56

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Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
Providing and laying in position plain cement concrete Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)								
	Cum							
For Corner Slab								
Ward No 17		354	2.30	0.20	0.15	24.43		
					Total Quantity	24.43	6327.20	154548.19
Rate Analysis								
Basic Rate	5752.00							
Area Weightage @10%	575.20							
Total Amount	6327.20							
Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.I.No 6.32 P.No 17 Volume 2 SR 2021-22								
	Sqm							
For Corner Slab								
Ward No 69		354	2.30		0.40	325.68		
For Solid Block								
Ward No 69								
1st cross road		4	29.25		0.20	23.40		
3rd cross road		4	66.30		0.20	53.04		
4th cross road		4	120.25		0.20	96.20		
5th cross road		4	125.45		0.20	100.36		
6th cross road		4	126.75		0.20	101.40		
7th cross road		4	123.50		0.20	98.80		
8th cross road		4	118.30		0.20	94.64		
9th cross road		4	63.05		0.20	50.44		
10th cross road		4	59.80		0.20	47.84		
11th cross road		4	58.50		0.20	46.80		
12th cross road		4	48.75		0.20	39.00		
13th cross road		4	68.25		0.20	54.60		
14th cross road		4	107.25		0.20	85.80		
9th cross road		4	39.00		0.20	31.20		
10th cross road		4	33.80		0.20	27.04		
11th cross road		4	32.50		0.20	26.00		
32nd cross road		4	198.25		0.20	158.60		
33rd main road		4	71.50		0.20	57.20		
2nd main road		4	39.00		0.20	31.20		
1st main road		4	107.90		0.20	86.32		
namana foods		4	68.90		0.20	55.12		
2nd A cross road		4	26.00		0.20	20.80		
B N aqua		4	55.90		0.20	44.72		
rangaswamy provision		4	45.50		0.20	36.40		
lakshmi provision		4	45.50		0.20	36.40		
service road		4	266.50		0.20	213.20		
10th B main road		4	143.00		0.20	114.40		
9th B main road		4	162.50		0.20	130.00		
8th cross road		4	71.50		0.20	57.20		
2nd A main road		4	52.00		0.20	41.60		
2nd B main road		4	55.90		0.20	44.72		
cross road		4	71.50		0.20	57.20		
9th cross road		4	59.80		0.20	47.84		
8th A cross road		4	95.55		0.20	76.44		
7th main road		4	91.00		0.20	72.80		

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Description of work	Unit	Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
6th A cross road		4	68.25		0.20	54.60		
5th A cross road		4	283.40		0.20	226.72		
w0405		4	19.50		0.20	15.60		
w0505		4	13.00		0.20	10.40		
KEMPEGOWDA LAYOUT								
Ganesha temple road		4	29.90		0.20	23.92		
cross road		4	42.25		0.20	33.80		
9th cross road		4	82.55		0.20	66.04		
19th cross road		4	114.40		0.20	91.52		
w0406		4	176.80		0.20	141.44		
22nd cross road		4	122.20		0.20	97.76		
20th cross road		4	188.50		0.20	150.80		
1st cross road		4	78.00		0.20	62.40		
2nd cross road		4	170.95		0.20	136.76		
3rd cross road		4	157.30		0.20	125.84		
w0401		4	250.25		0.20	200.20		
KEMPEGOWDA arch road		4	191.75		0.20	153.40		
PREETHY NAGARA								
laggere main road(bustop)		4	319.80		0.20	255.84		
cross road		4	33.80		0.20	27.04		
attimaramma tmpl road		4	38.35		0.20	30.68		
milk fresh condiments		4	50.70		0.20	40.56		
siligiri tea point		4	48.75		0.20	39.00		
KBS stores		4	44.85		0.20	35.88		
cross road 1		4	74.10		0.20	59.28		
cross road 2		4	169.00		0.20	135.20		
7th main road		4	170.30		0.20	136.24		
6th main road church road		4	192.40		0.20	153.92		
5th main road		4	214.50		0.20	171.60		
1st main road		4	209.95		0.20	167.96		
RAJIV GANDHI NAGARA								
2nd main road		4	309.40		0.20	247.52		
1st main road		4	100.75		0.20	80.60		
Cross Rd		2	211.25		0.20	84.50		
muneshwara templ		2	274.95		0.20	109.98		
					Total Quantity	6051.40	1322.20	8001161.08
Rate Analysis								
Basic Rate	1202.00							
Area Weightage @10%	120.20							
Total Amount	1322.20							

5 Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.Item No.8.19.1,Page No.44, Vol II SR 21-22

	Sqm							
Pointing								
Ward No :69								
1st cross road		4	29.25		0.20	23.40		
3rd cross road		4	66.30		0.20	53.04		
4th cross road		4	120.25		0.20	96.20		
5th cross road		4	125.45		0.20	100.36		
6th cross road		4	126.75		0.20	101.40		
7th cross road		4	123.50		0.20	98.80		
8th cross road		4	118.30		0.20	94.64		
9th cross road		4	63.05		0.20	50.44		
10th cross road		4	59.80		0.20	47.84		
11th cross road		4	58.50		0.20	46.80		
12th cross road		4	48.75		0.20	39.00		
13th cross road		4	68.25		0.20	54.60		
14th cross road		4	107.25		0.20	85.80		
9th cross road		4	39.00		0.20	31.20		

Scanned with CamScanner

Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
10th cross road		4	33.80		0.20	27.04		
11th cross road		4	32.50		0.20	26.00		
32nd cross road		4	198.25		0.20	158.60		
33rd main road		4	71.50		0.20	57.20		
2nd main road		4	39.00		0.20	31.20		
1st main road		4	107.90		0.20	86.32		
ramana foods		4	68.90		0.20	55.12		
2nd A cross road		4	26.00		0.20	20.80		
B N aqua		4	55.90		0.20	44.72		
rangaswamy provision		4	45.50		0.20	36.40		
lakshmi provision		4	45.50		0.20	36.40		
service road		4	266.50		0.20	213.20		
10th B main road		4	143.00		0.20	114.40		
9th B main road		4	162.50		0.20	130.00		
8th cross road		4	71.50		0.20	57.20		
2nd A main road		4	52.00		0.20	41.60		
2nd B main road		4	55.90		0.20	44.72		
cross road		4	71.50		0.20	57.20		
9th cross road		4	59.80		0.20	47.84		
8th A cross road		4	95.55		0.20	76.44		
7th main road		4	91.00		0.20	72.80		
6th A cross road		4	68.25		0.20	54.60		
5th A cross road		4	283.40		0.20	226.72		
w0405		4	19.50		0.20	15.60		
w0505		4	13.00		0.20	10.40		
KEMPEGOWDA LAYOUT								
Ganesha temple road		4	29.90		0.20	23.92		
cross road		4	42.25		0.20	33.80		
9th cross road		4	82.55		0.20	66.04		
19th cross road		4	114.40		0.20	91.52		
w0406		4	176.80		0.20	141.44		
22nd cross road		4	122.20		0.20	97.76		
20th cross road		4	188.50		0.20	150.80		
1st cross road		4	78.00		0.20	62.40		
2nd cross road		4	170.95		0.20	136.76		
3rd cross road		4	157.30		0.20	125.84		
w0401		4	250.25		0.20	200.20		
KEMPEGOWDA arch road		4	191.75		0.20	153.40		
PREETHY NAGARA								
laggere main road(bustop)		4	319.80		0.20	255.84		
cross road		4	33.80		0.20	27.04		
attimaramma tmpl road		4	38.35		0.20	30.68		
milk fresh condiments		4	50.70		0.20	40.56		
siligiri tea point		4	48.75		0.20	39.00		
KBS stores		4	44.85		0.20	35.88		
cross road 1		4	74.10		0.20	59.28		
cross road 2		4	169.00		0.20	135.20		
7th main road		4	170.30		0.20	136.24		
6th main road church road		4	192.40		0.20	153.92		
5th main road		4	214.50		0.20	171.60		
1st main road		4	209.95		0.20	167.96		
RAJIV GANDHI NAGARA								
2nd main road		4	309.40		0.20	247.52		
1st main road		4	100.75		0.20	80.60		
Cross Rd		2	211.25		0.20	84.50		
muneshwara templ		2	274.95		0.20	109.98		
					Total Quantity	5725.72	220.00	1259658.40

Rate Analysis	
Basic Rate	200.00
Area Weightage @10%	20.00

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Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
Total Amount	220.00							
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate.Item No.2.1.4,Page No.15, Vol I SR 21-22								
	Sqm							
Plastering								
Ward No 69								
1st cross road		4	29.25	0.20	0.10	2.34		
3rd cross road		4	66.30	0.20	0.10	5.30		
4th cross road		4	120.25	0.20	0.10	9.62		
5th cross road		4	125.45	0.20	0.10	10.04		
6th cross road		4	126.75	0.20	0.10	10.14		
7th cross road		4	123.50	0.20	0.10	9.88		
8th cross road		4	118.30	0.20	0.10	9.46		
9th cross road		4	63.05	0.20	0.10	5.04		
10th cross road		4	59.80	0.20	0.10	4.78		
11th cross road		4	58.50	0.20	0.10	4.68		
12th cross road								
13th cross road		4	68.25	0.20	0.10	5.46		
14th cross road		4	107.25	0.20	0.10	8.58		
9th cross road		4	39.00	0.20	0.10	3.12		
10th cross road		4	33.80	0.20	0.10	2.70		
11th cross road		4	32.50	0.20	0.10	2.60		
32nd cross road		4	198.25	0.20	0.10	15.86		
33rd main road		4	71.50	0.20	0.10	5.72		
2nd main road		4	39.00	0.20	0.10	3.12		
1st main road		4	107.90	0.20	0.10	8.63		
namana foods		4	68.90	0.20	0.10	5.51		
2nd A cross road		4	26.00	0.20	0.10	2.08		
B N aqua		4	55.90	0.20	0.10	4.47		
rangaswamy provision		4	45.50	0.20	0.10	3.64		
lakshmi provision		4	45.50	0.20	0.10	3.64		
service road		4	266.50	0.20	0.10	21.32		
10th B main road		4	143.00	0.20	0.10	11.44		
9th B main road		4	162.50	0.20	0.10	13.00		
8th cross road		4	71.50	0.20	0.10	5.72		
2nd A main road		4	52.00	0.20	0.10	4.16		
2nd B main road		4	55.90	0.20	0.10	4.47		
cross road		4	71.50	0.20	0.10	5.72		
9th cross road		4	59.80	0.20	0.10	4.78		
8th A cross road		4	95.55	0.20	0.10	7.64		
7th main road		4	91.00	0.20	0.10	7.28		
6th A cross road		4	68.25	0.20	0.10	5.46		
5th A cross road		4	283.40	0.20	0.10	22.67		
w0405		4	19.50	0.20	0.10	1.56		
w0505		4	13.00	0.20	0.10	1.04		
KEMPEGOWDA LAYOUT								
Ganesha temple road		4	29.90	0.20	0.10	2.39		
cross road		4	42.25	0.20	0.10	3.38		
9th cross road		4	82.55	0.20	0.10	6.60		
19th cross road		4	114.40	0.20	0.10	9.15		
w0406		4	176.80	0.20	0.10	14.14		
22nd cross road		4	122.20	0.20	0.10	9.78		
20th cross road		4	188.50	0.20	0.10	15.08		
1st cross road		4	78.00	0.20	0.10	6.24		
2nd cross road		4	170.95	0.20	0.10	13.68		
3rd cross road		4	157.30	0.20	0.10	12.58		
w0401		4	250.25	0.20	0.10	20.02		
KEMPEGOWDA arch road		4	191.75	0.20	0.10	15.34		
PREETHY NAGARA								

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	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	laggere main road(bustop)		4	319.80	0.20	0.10	25.58		
	cross road		4	33.80	0.20	0.10	2.70		
	attimaramma tmpl road		4	38.35	0.20	0.10	3.07		
	milk fresh condiments		4	50.70	0.20	0.10	4.06		
	siligiri tea point		4	48.75	0.20	0.10	3.90		
	KRS stores		4	44.85	0.20	0.10	3.59		
	cross road 1		4	74.10	0.20	0.10	5.93		
	cross road 2		4	169.00	0.20	0.10	13.52		
	7th main road		4	170.30	0.20	0.10	13.62		
	6th main road church road		4	192.40	0.20	0.10	15.39		
	5th main road		4	214.50	0.20	0.10	17.16		
	1st main road		4	209.95	0.20	0.10	16.80		
	RAJIV GANDHI NAGARA								
	2nd main road		4	309.40	0.20	0.10	24.75		
	1st main road		4	100.75	0.20	0.10	8.06		
	Cross Rd		2	211.25	0.20	0.10	8.45		
	muneshwara templ		2	274.95	0.20	0.10	11.00		
						Total Quantity	568.67	6518.60	3706945.30
	Rate Analysis								
	Basic Rate	5926.00							
	Area Weightage @10%	592.60							
	Total Amount	6518.60							
7	Providing B S Slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		Sqm							
	Missing And Broken Slab 40 %						6293.28		
						Total Quantity	6293.28	837.00	5267475.36
	Rate Analysis								
	Basic Rate	837.00							
	Total Amount	837.00							
8	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		Sqm							
	Missing And Broken Slab 40 %						6293.28		
						Total Quantity	6293.28	242.00	1522973.76
	Rate Analysis								
	Basic Rate	242.00							
	Total Amount	242.00							
9	Providing Machine Cutting edges to B S Slabs 2.5cms.wide as per Specifications.(Only Chamfered length Shall be recorded)inclusive of all taxes Complete.,as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)								
		Sqm							
	Missing And Broken Slab 40 %		1	5244.00	3.00		15732.00		
						Total Quantity	15732.00	390.00	6135480.00
	Rate Analysis								
	Basic Rate	390.00							
	Total Amount	390.00							
10	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)								
		Sqm							
	Plastering								

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Description of work	Unit	Nos	Dimenstions In m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
		354	2.30		0.40	325.68		
Rate Analysis					Total Quantity	325.68	337.70	109982.14
Basic Rate	307.00							
Area Weightage @10%	30.70							
Total Amount	337.70							
Providing & laying precast drain corner cover slab of 200 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.20) Approved Data rate								
New Rcc Drain 1200 cm	Sqm							
		53				53.00		
Basic Rate	10492.00				Total Quantity	53.00	10492.00	556076.00
Area Weightage @10%								
Total Amount	10492.00							
Providing & laying precast drain corner cover slab of 200 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.20) Approved Data rate								
New Rcc Drain 900 cm	Sqm							
		124				124.00		
Basic Rate	8051.00				Total Quantity	124.00	8051.00	998324.00
Area Weightage @10%								
Total Amount	8051.00							
Providing & laying precast drain slab of 230 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.23) Approved Data rate								
Missing Slab Culverts	Sqm							
30 % Missing		22	6.00	1.50		29.50		
Basic Rate	5440.98					8.85		
Area Weightage @10%					Total Quantity	8.85	5440.98	48152.67
Total Amount	5440.98							
Removing and resetting of kerb stones.Page No. 270								
	No's							
Ward No 69								
1st cross road								
3rd cross road		2	29.25			58.50		
4th cross road		2	66.30			132.60		
5th cross road		2	120.25			240.50		
6th cross road		2	125.45			250.90		
7th cross road		2	126.75			253.50		
8th cross road		2	123.50			247.00		
9th cross road		2	118.30			236.60		
10th cross road		2	63.05			126.10		
11th cross road		2	59.80			119.60		
12th cross road		2	58.50			117.00		
13th cross road		0	0.00			0.00		
14th cross road		2	68.25			136.50		
9th cross road		2	107.25			214.50		
10th cross road		2	39.00			78.00		
11th cross road		2	33.80			67.60		
32nd cross road		2	32.50			65.00		
33rd main road		2	198.25			396.50		
2nd main road		2	71.50			143.00		
1st main road		2	39.00			78.00		
namana foods								
2nd A cross road		2	68.90			137.80		
B N aqua		2	26.00			52.00		
		2	55.90			111.80		

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	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
	rangaswamy provision		2	45.50			91.00		
	lakshmi provision		2	45.50			91.00		
	service road		2	266.50			533.00		
	10th B main road		2	143.00			286.00		
	9th B main road		2	162.50			325.00		
	8th cross road		2	71.50			143.00		
	2nd A main road		2	52.00			104.00		
	2nd B main road		2	55.90			111.80		
	cross road		2	71.50			143.00		
	9th cross road		2	59.80			119.60		
	8th A cross road		2	95.55			191.10		
	7th main road		2	91.00			182.00		
	6th A cross road		2	68.25			136.50		
	5th A cross road		2	283.40			566.80		
	w0405		2	19.50			39.00		
	w0505		2	13.00			26.00		
	KEMPEGOWDA LAYOUT								
	Ganesha temple road		2	29.90			59.80		
	cross road		2	42.25			84.50		
	9th cross road		2	82.55			165.10		
	19th cross road		2	114.40			228.80		
	w0406		2	176.80			353.60		
	22nd cross road		2	122.20			244.40		
	20th cross road		2	188.50			377.00		
	1st cross road		2	78.00			156.00		
	2nd cross road		2	170.95			341.90		
	3rd cross road		2	157.30			314.60		
	w0401		2	250.25			500.50		
	KEMPEGOWDA arch road		2	191.75			383.50		
	PREETHY NAGARA								
	laggere main road(bustop)		2	319.80			639.60		
	cross road		2	33.80			67.60		
	attimaramma tmpl road		2	38.35			76.70		
	milk fresh condiments		2	50.70			101.40		
	siligiri tea point		2	48.75			97.50		
	KBS stores		2	44.85			89.70		
	cross road 1		2	74.10			148.20		
	cross road 2		2	169.00			338.00		
	7th main road		2	170.30			340.60		
	6th main road church road		2	192.40			384.80		
	5th main road		2	214.50			429.00		
	1st main road		2	209.95			419.90		
	RAJIV GANDHI NAGARA								
	2nd main road		2	309.40			618.80		
	1st main road		2	100.75			201.50		
	Cross Rd		1	211.25			211.25		
	muneshwara templ		1	274.95			274.95		
	Missing & Broken35 %						-4900.35		
							9100.65		
							9100.65	118.00	1073876.70
	Data Rate	118.00							
	Total	118.00							
14	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165mm respectively,400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork,curing including cost of materials,labour charges of machinery,loading and unloading,lead and lift,transportation etc., complete as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges)								
		No's							

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Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
Missing & Broken35 %								
						4900.35		
Length/0.45								
Data Rate	507.00					10889.67	507.00	5521061.00
Total	507.00							
Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces.Painting Two Coats on New Concrete Surfaces.Item No.8.1,Page No.56, Vol III SR 21-22								
	Sqm							
		1	14001.00		0.30	4200.30		
Basic Rate	85.00					4200.30	93.50	392728.05
Area Weightage @ 10%	8.50							
Total	93.50							

Construction Total Amount	4,15,24,386.35
Add GST Charges 18%	74,74,389.54
Add Detailed Project Report (DPR) and PMC Charges 2.0%	10,00,000.00
Sub Total	4,99,98,775.89
Miscellaneous and unforeseen charges etc.L.S	1,224.11
Grand Total	5,00,00,000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2021-22 of Issue Rates on 07.04.2022

Assistant Engineer
Ward No 69

Asst Exe Engineer
Laggere Sub Division

Executive Engineer
RR Nagar Division

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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BRUHAT BANGALORE MAHANAGARA PALIKE

Draft DETAILED TENDER SCHEDULE D. T. S.

Name of Work : Comprehensive Development of Roads & Drains in LG Ramanna Layout, Freedom Fighter Colony, Narasimha Swamy Layout and Surrounding areas in W No.69 under PACKAGE- 2022-23 RRN-DIV-(12).

	Description	Unit	Total Quantity	Rates in Rupees	Rates in Words
	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) Data Rate	Cum	33125.64	212.00	Rupees Two Hundred Twelve Only
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the	Cum	16127.94	363.56	Rupees Three Hundred Sixty Three And Paise Fifty Six Only
3	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical	Cum	48.85	6327.20	Rupees Six Thousand Three Hundred Twenty Seven And Paise Twenty Only
4	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.I.No 6.32 P.No 17 Volume 2 SR 2021-22	Sqm	12626.48	1322.20	Rupees One Thousand Three Hundred Twenty Two And Paise Twenty Only
5	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.Item No.8.19.1,Page No.44, Vol II SR 21-22	Sqm	11975.12	220.00	Rupees Two Hundred Twenty Only
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix	Sqm	1168.29	6518.60	Rupees Six Thousand Five Hundred Eighteen And Paise Sixty Only
7	Providing B S Slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)	Sqm	12178.56	837.00	Rupees Eight Hundred Thirty Seven Only
8	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)	Sqm	12178.56	242.00	Rupees Two Hundred Forty Two Only
9	Providing Machine Cutting edges to B S Slabs 2.5cms.wide as per Specifications.(Only Chamfered length Shall be recorded)inclusive of all taxes Complete..as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)	Sqm	30444.00	390.00	Rupees Three Hundred Ninety Only
10	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)	Sqm	651.36	337.70	Rupees Three Hundred Thirty Seven And Paise Seventy Only
11	Providing & laying precast drain corner cover slab of 200 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.20) Approved Data rate	No's	106.00	10492.00	Rupees Ten Thousand Four Hundred Ninety Two Only
12	Providing & laying precast drain corner cover slab of 200 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.20) Approved Data rate	No's	248.00	8051.00	Rupees Eight Thousand Fifty One Only
13	Providing & laying precast drain slab of 230 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.23) Approved Data rate	Sqm	17.40	5440.98	Rupees Five Thousand Four Hundred Forty And Paise Ninety Eight Only
14	Removing and resetting of kerb stones.Page No. 270	No's	18844.40	118.00	Rupees One Hundred Eighteen Only
15	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165mm respectively,400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork,curing including cost of materials,labour charges of machinery,loading and unloading,lead and lift,transportation etc., complete as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges)	No's	22548.86	507.00	Rupees Five Hundred Seven Only
16	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces.Painting Two Coats on New Concrete Surfaces.Item No.8.1,Page No.56, Vol III SR 21-22	Sqm	8697.42	93.50	Rupees Ninety Three And Paise Fifty Only

Total No. of pages : 01

Total No. of Corrections : NIL

"DTS APPROVED"

Executive Engineer
RR NAGARA Division
BBMP

P.N

ಮುಖ್ಯ ಅಧಿಯಂತರು
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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BRUHAT BANGALORE MAHANAGARA PALIKE

ABSTRACT ESTIMATE

Name of Work : Comprehensive Development of Roads & Drains in LG Ramanna Layout, Freedom Fighter Colony, Narasimha Swamy Layout and Surrounding areas in W No.69 under PACKAGE- 2022-23 RRN-DIV-(12).

Sl. No	Description	Unit	40	41	Total Quantity	Rates In Rupees	Amount Rs.
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) Data Rate	Cum	16453.02	16672.62	33125.64	212.00	7022635.68
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work In all kinds of soils Depth upto 1.5 m Item No.1.4.1 Page No.4(6) Vol I CSR 21-22	Cum	7212.36	8915.58	16127.94	363.56	5863473.87
3	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)	Cum	24.43	24.43	48.85	6327.20	309096.37
4	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.I.No 6.32 P.No 17 Volume 2 SR 2021-22	Sqm	6575.08	6051.40	12626.48	1322.20	16694726.57
5	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.Item No.8.19.1,Page No.44, Vol II SR 21-22	Sqm	6249.40	5725.72	11975.12	220.00	2634525.52
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately).Mix 1:2:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate Item No.2.1.4 Page No.15	Sqm	599.62	568.67	1168.29	6518.60	7615599.55
7	Providing B S Slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)	Sqm	5885.28	6293.28	12178.56	837.00	10193454.72
8	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges)	Sqm	5885.28	6293.28	12178.56	242.00	2947211.52
9	Providing Machine Cutting edges to B S Slabs 2.5cms.wide as per Specifications.(Only Chamfered ~~length Shall be recorded)inclusive of all taxes Complete.,as directed by the Engineer in Charge of~~ the work (Excluding GST and Area Leading Charges)	Sqm	14712.00	15732.00	30444.00	390.00	11873160.00

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	Description	Unit	40	41	Total Quantity	Rates In Rupees	Amount Rs.
	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)	Sqm	325.68	325.68	651.36	337.70	219964.27
1	Providing & laying precast drain corner cover slab of 200 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.20) Approved Data rate	No's	53.00	53.00	106.00	10492.00	1112152.00
2	Providing & laying precast drain corner cover slab of 200 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.20) Approved Data rate	No's	124.00	124.00	248.00	8051.00	1996648.00
3	Providing & laying precast drain slab of 230 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.23) Approved Data rate	Sqm	8.55	8.85	17.40	5440.98	94673.05
14	Removing and resetting of kerb stones.Page No. 270	No's	9743.75	9100.65	18844.40	118.00	2223639.61
15	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165mm respectively,400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork,curing including cost of materials,labour charges of machinery,loading and unloading,lead and lift,transportation etc., complete as directed by the Engineer in charge of the work (Excluding GST and Area Leading Charges)	No's	11659.19	10889.67	22548.86	507.00	11432271.46
16	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces.Painting Two Coats on New Concrete Surfaces.Item No.8.1,Page No.56, Vol III SR 21-22	Sqm	4497.12	4200.30	8697.42	93.50	813208.49
						Construction Total Amount	83046440.68
						Add GST Charges 18%	14948359.32
						Add Detailed Project Report (DPR) and PMC Charges 2.0%	2000000.00
						Sub Total	99994800.00
						Miscellaneous and unforeseen charges etc.L.S	5200.00
						Grand Total	100000000.00

TECHNICAL SANCTION

Rs: 83046440/- (Rs eight crore thirty lakhs forty six thousand four hundred forty only) is accorded under the head:

By CE(R.R.N.), P.N. 22-23

Registered as CE (R.R.N) No: 66/22-23 subject to conditions contained in enclosed memo No: 66/22-23 Dated: 8/7/2022

TA, CE (R.R.N.)

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ನಂ.: 37/22-23 ದಿನಾಂಕ: 20/09/2022

ರೂ. 10,00,00,000/- (Ten crore only)

ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಿಭಾಗ
ಬ.ಬ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-72

Executive Engineer
RR NAGARA Division
BBMP

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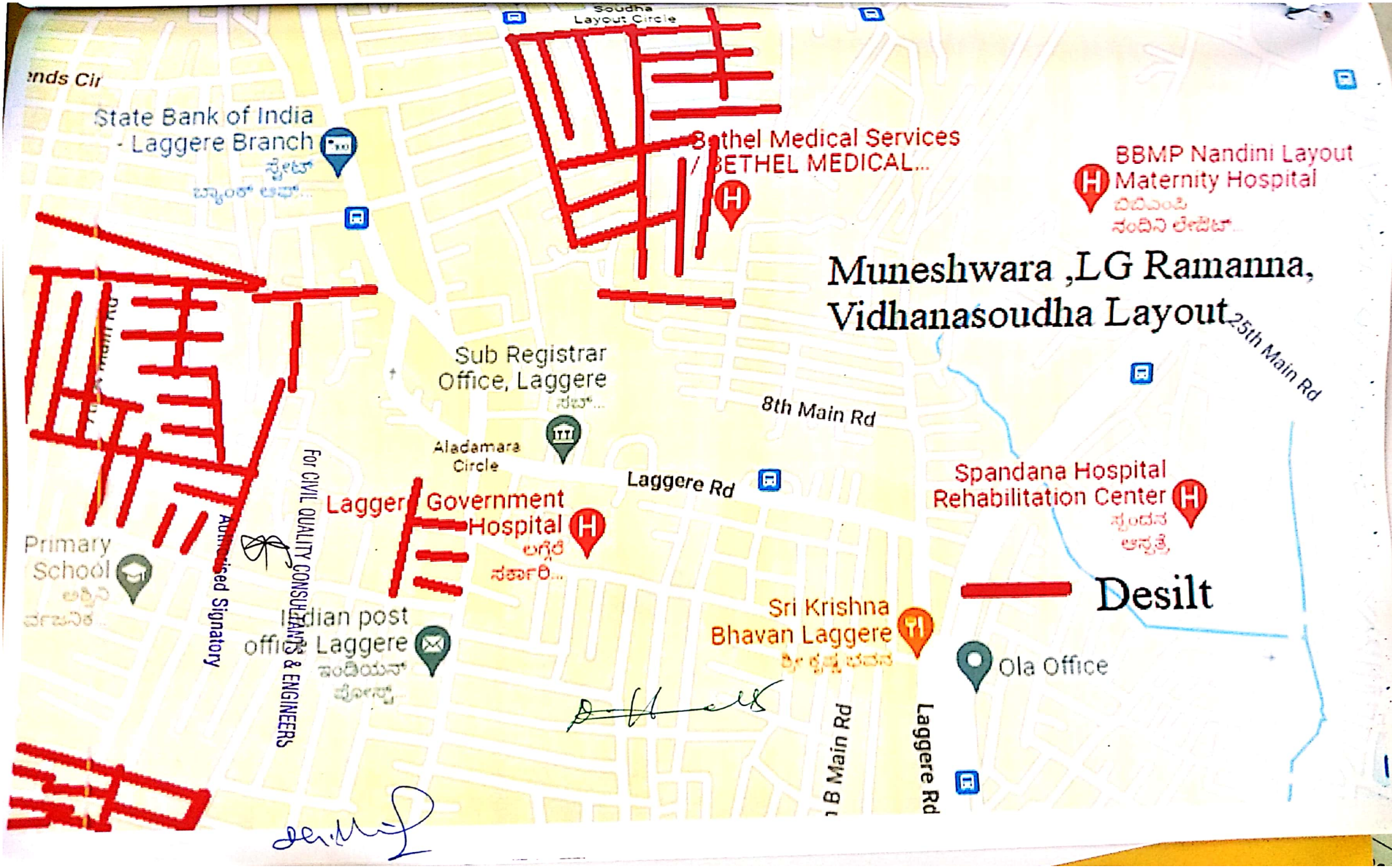

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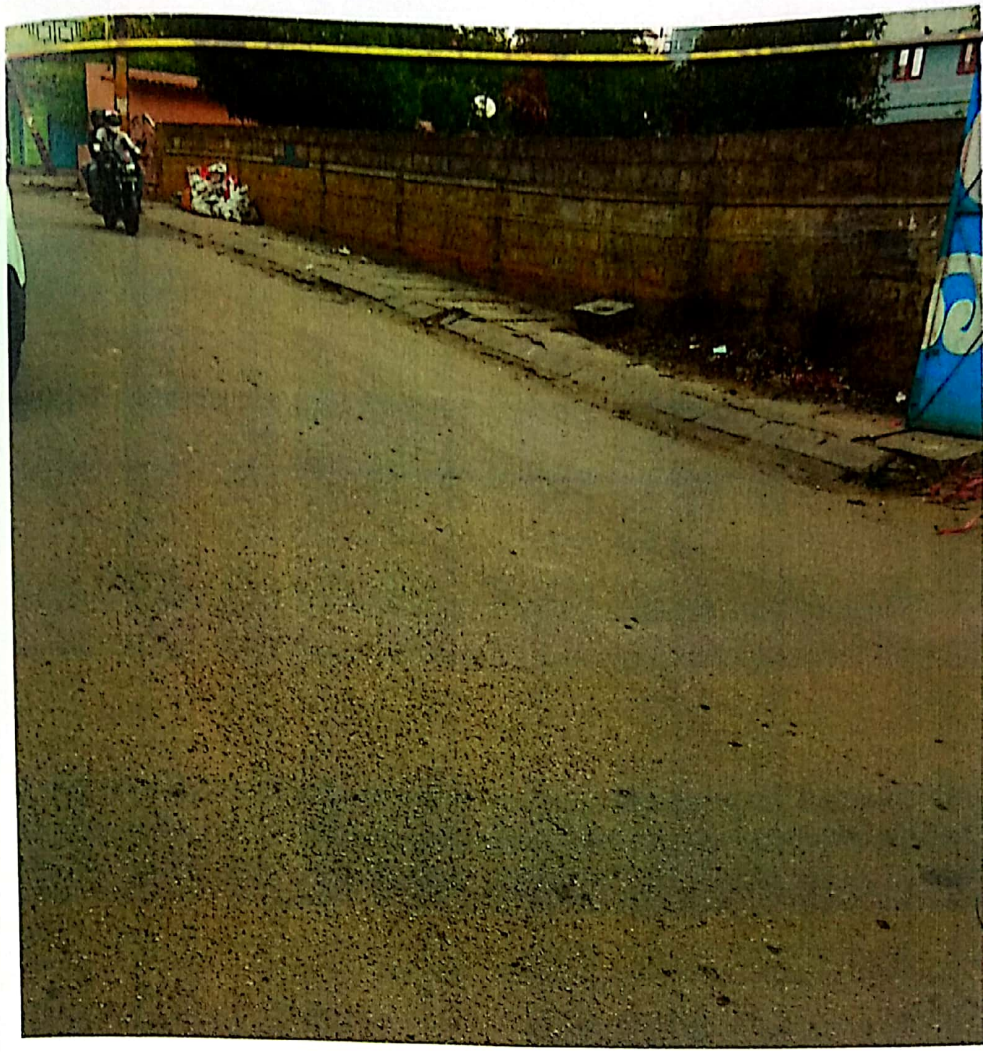

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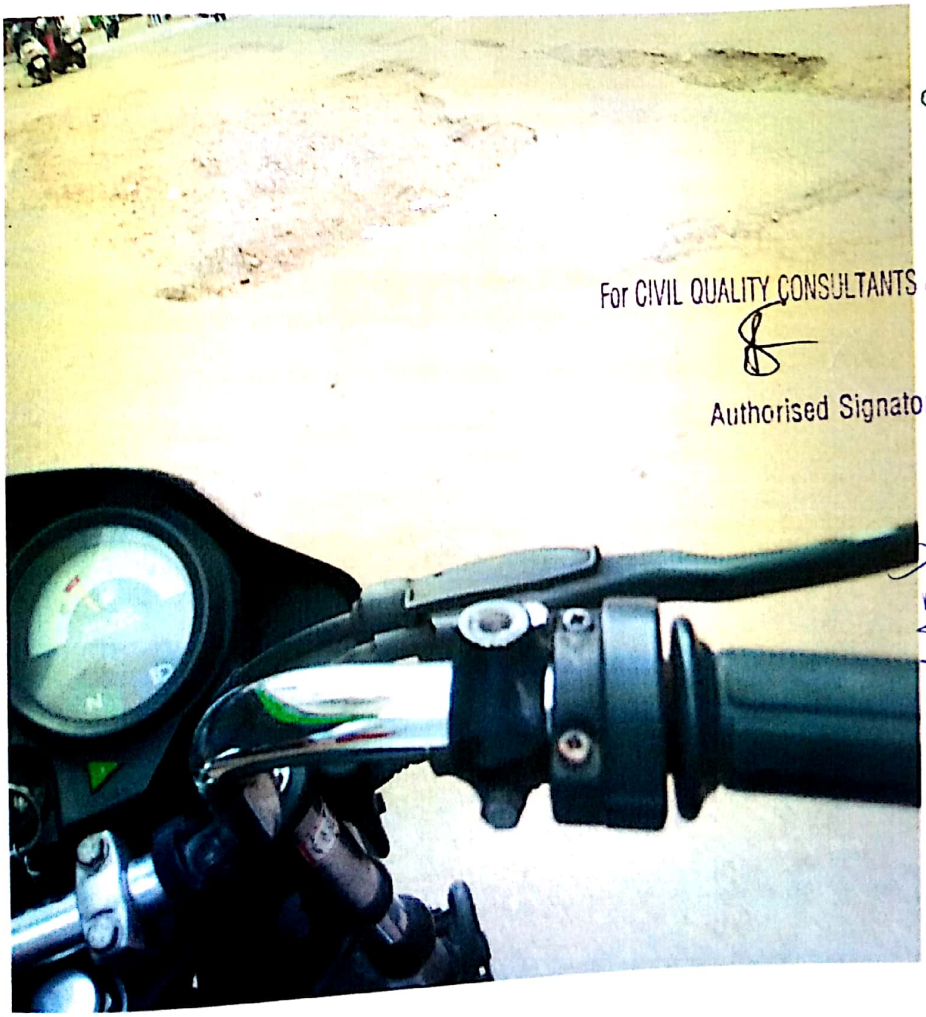

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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ENGINEERS

Authorised Signatory

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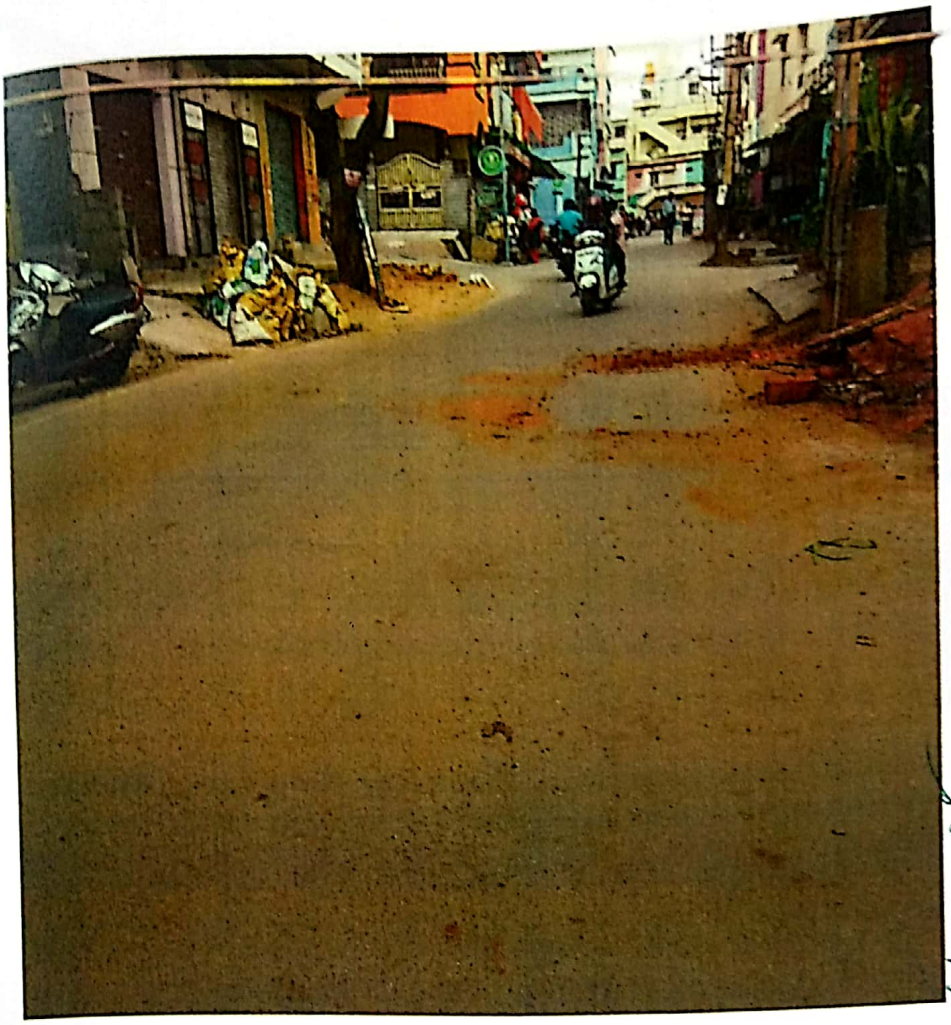

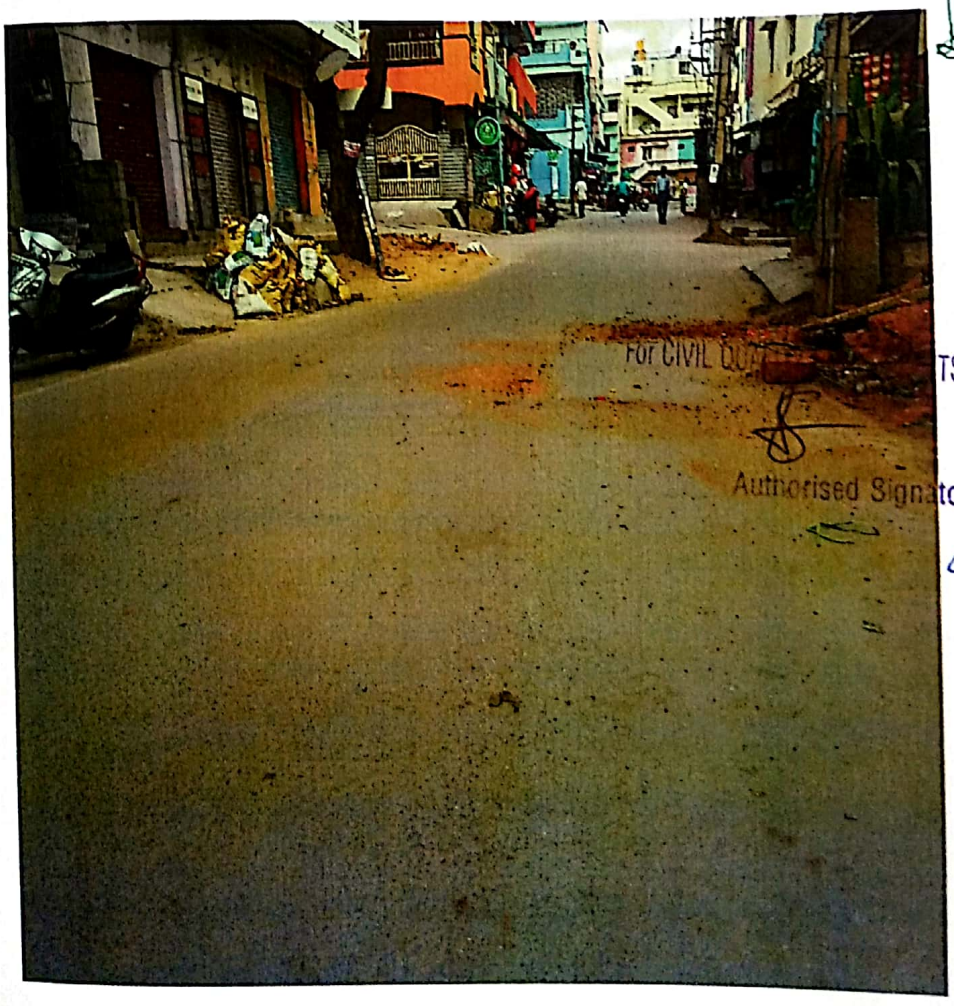

For CIVIL QU... TS & ENGINEERS

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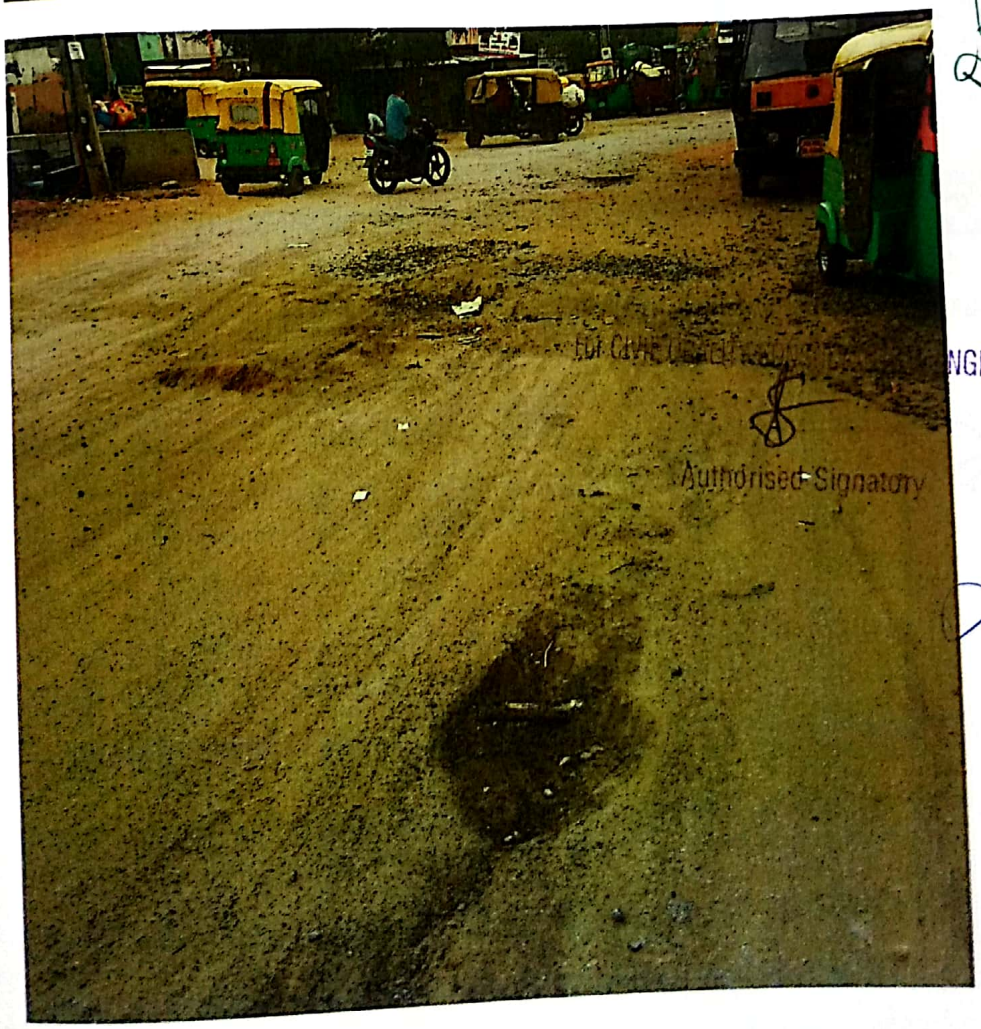

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